Dear tshingombe,
Here is the copy of the Project Pitch with reference number : **00100839** submitted to the **Energy Technologies (EN)** on **4/10/2025**.

1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
engineering
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
htpps//:www.tshingombe.com
9. SBIR/STTR topic that best fits your projects technology area
Energy Technologies (EN)
Are you eligible and interested in being considered for the NSF Fast-Track program?
No
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
No
11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
No
13. Briefly Describe the Technology Innovation?Prospect Student Alu Research 2 Assessement Thesisi Experimental ,
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fiston
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timeHistory
Publication date
2025-04-05

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Language
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14. Briefly Describe the Technical Objectives and Challenges?Curriculum assessment assessment
Name : tshingombe tshitadi fiston
Content:
Table of Contents
Curriculum assessment assessment
Name : tshingombe tshitadi fiston
1.1
Thesis. Degree honor, council quality rules low become justice development court and labor relations conciliation mediation, Engineering electrical trade research policy skill ,safety security
order develop ,defense order
2.1 Thesis. Degree honor, council quality rules low become justice
development court and labour relations conciliation mediation, Engineering electrical trade research policy skill ,safety security
order develop ,defense order
Thesis. Degree honour, council quality rules low become justice development court and labour relations counciliation mediation,

Engineering electrical trade research policy skill ,safety security
order developm ,defense order
5.1 Examination project
Master's in Artificial General Intelligence and Social Sciences
Introduction to Artificial General Intelligence
AGI and Human Cognition
Ethical Considerations of AGI
AGI and Economic Implications
AGI in Public Policy and Governance
Social Impact of AGI
tshingombe tshitadi
Masters /engineering
About Me
Name
Follow Me On
My Education
Work Experience
Skills
Professional Skills
My Interests & Hobbies
Engineering electrical assessment career but sustainability
Some of my work & Certifications
Some Works
Thesis & Publications
AGI in Human-Machine Collaboration
Future Scenarios of AGI Development
4.1 .12.14,,
online Retail and E-commerce in the Renewable Energy Sector
Introduction to E-commerce in the Renewable Energy
SectorUnderstanding the Renewable Energy Market
E-commerce Strategies for Renewable Energy Products
Consumer Behavior in Online Retail
Digital Marketing for Renewable Energy E-commerce
Sustainable Practices in E-commerce
Case Studies in Renewable Energy E-commerce
Regulatory Environment for Online Retail in Renewable Energy
Future Trends in Online Retail and Renewable Energy
Publishing and Natural Resources Management
Introduction to Sustainable Natural Resources Management
The Role of Publishing in Sustainability
Environmental Journalism and Communication
Digital Publishing and New Media
Content Creation for Natural Resource Management
Policy Advocacy and Public Engagement
Sustainable Practices in Publishing

Case Studies in Effective Sustainability Communication
Masters in Supply Chain Management and Traceability
Introduction to Supply Chain Management
Principles of Traceability
Software Engineering Basics
Supply Chain Digitalization
Data Management in Supply Chains
Blockchain for Supply Chain Traceability
IoT and Smart Supply Chains
Security and Privacy in Supply Chain Software
Case Studies and Real-world Applications
Social Media Marketing for Real Estate, Rental, and Leasing
Introduction to Social Media Marketing
Target Audience Analysis
Content Creation for Real Estate
Platform-Specific Strategies
15. Briefly Describe the Market Opportunity?
Cducation
Virtual Labs and Simulations
Assessing Learner Outcomes in Technology-Driven Curriculum
Case Studies in Renewable Energy Education
Challenges in Integrating Technology and Renewable Energy Education
Wholesale Trade Management in Industrial Engineering
Introduction to Wholesale Trade
Supply Chain Dynamics
Inventory Control Methods
Logistics and Distribution
Procurement Strategi
16. Briefly Describe the Company and Team?Hardware Configuration
4. Optimization of IoT-Enabled Electrical Systems
o Experiment: Configure Cisco IoT hardware for industrial automation and
monitor its impact on electrical system efficiency.
o Focus: Compare outcomes with traditional non-IoT systems.
5. Network Traffic Impact on Energy Consumption
o Experiment: Measure the correlation between network traffic and power
usage in Cisco networking hardware.
o Focus: Simulate high and low traffic conditions to evaluate energy
saving features.
6. Compatibility of Cisco Devices with Electrical Standards
o Experiment: Test Cisco hardware configurations against national and
international electrical engineering standards.

o Focus: Ensure compliance and reliability under diverse conditions.
Electrical System Integration
7. Smart Grid Performance with Cisco Hardware
o Experiment: Investigate the role of Cisco networking devices in
optimizing energy distribution within smart grids.
o Focus: Study how configurations improve fault detection and load
management.
8. Renewable Energy Integration
o Experiment: Configure Cisco hardware to monitor and control systems
with renewable energy sources like solar panels.
o Focus: Analyze the efficiency of hardware configurations in hybrid
energy setups.
o
17. How did you first hear about our program?
NSF email, webinar, or event

**NSF SBIR/STTR Phase I Eligibility Information:**

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
Eligibility Guidefor more information).
The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,
and all funded work needs

to take place in the United States (including work done by consultants and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhereof greater than 19.6 hours per week to be in conflict with this requirement.

• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
funded project, per six months of project duration.
*For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using*
*https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.*
*Please note that these*
*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily*
*when the proposal is submitted.*

*2.* Dear fiston,

Here is the copy of the Project Pitch with reference number : **00097898** submitted to the
**Advanced Systems for Scalable Analytics (AA)** on **2/3/2025**.
1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
fiston
3. Submitter Last Name
tshingombe
4. Submitter Phone Number
0725298946
5. Company Name
Engineering tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
https://tshingombe.com
9. SBIR/STTR topic that best fits your projects technology area
Advanced Systems for Scalable Analytics (AA)
Are you eligible and interested in being considered for the NSF Fast-Track program?
No
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
No
11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?
No
13. Briefly Describe the Technology Innovation?Education technology relate low manufacture thesis.low outcome framework qualicafition.invrstisgation energie rurale framework meeting and no
meeting development system integration system plant imagine and real
system complex system energy . Educational regulation irregularite
system and regulation system .project integration time table
14. Briefly Describe the Technical Objectives and Challenges?
Technical challenges real industrial and imaginar system time table
education field artisant build to real African system in marketing
15. Briefly Describe the Market Opportunity?
Market system money .sale record implementating programmes design
imagined cost assessment in the time frame lost maintenance emergency
system
16. Briefly Describe the Company and Team?
Campagny team member organisation sub sector engineering system and
educator system career experience outcome career undertake job .
17. How did you first hear about our program?
University tech transfer, VPR, or other administrative office

**NSF SBIR/STTR Phase I Eligibility Information:**

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
Eligibility Guidefor more information).
The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants

and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhere
of greater than 19.6 hours per week to be in conflict with this requirement.
• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
funded project, per six months of project duration.
*For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using*
*https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.*
*Please note that these*
*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.* Dear fiston,

Here is the copy of the Project Pitch with reference number : **00098889** submitted to the **Energy**
**Technologies (EN)** on **2/25/2025**.
1. Submitter Email
`tshingombefiston@gmail.com`
2. Submitter First Name
`fiston`
3. Submitter Last Name
`tshingombe`
4. Submitter Phone Number
`0725298946`
5. Company Name
`Engineering electrical tshingombe`
6. Company Zip Code
`10300`
7. Company State
AR
8. Company Website
`https://github.com/Kananga5/Curriculum-section-1-1.1-Thesis.-Degree`
`honor-council-quality-rules-low-become-ju`
9. SBIR/STTR topic that best fits your projects technology area
`Energy Technologies (EN)`
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please provide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel

involved in each of the listed research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words) Thesis. Degree honor, council quality rules low become justice
development court and labor relations conciliation mediation, Engineering electrical trade research policy skill ,safety security
order develop ,defense order
1 .1.1 *Thesis:
* Research policy
trade theory minimum : legislation skill development :
*1.1.2Education technology,: Education engineering relate low manufacture ..
Degree honorable ; college low labor justice ,
* Low relate literature traditional African LTA practical low rules
African
Convert unite international relate low rules European American curent in
unity language culture African rules
Please provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
corresponding dates and award number(s) or other program identification details; a description of
the technology in relation to which the customer discovery was undertaken, and a summary of the
customer discovery findings. (Up to 250 words) Thesis. Degree honor, council quality rules low become justice
development court and labor relations conciliation mediation, Engineering electrical trade research policy skill ,safety security
order develop ,defense order
1 .1.1 *Thesis:
* Research policy
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*overview : journal
* Key :
* Background:
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research recharge system education technologie education technical
career and vocational career trade training trainer facilitator moderator low assessor
Please check the appropriate box below to indicate whether the proposing Fast-Track team will
be complete at the time of proposal submission. Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234568
Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to
discuss this prior full proposal submission? 1..1 introduction :
framework experimental nated ncv combination
Nated combination irregularity policy management system information
workbase experimental facilities moderator p
*1.3.2..3 Overview career libraries ,mentor facilitator library research
method book .
Low congre library,

*1.3.2..3.
3.1Key: about library research centre the mission of the low library of
congress is to provide authoritative legal research , reference and
instructions service and access to an resolved.
Established 1832 low library has a collection of over ,2,9 million
volumes spanning all systems and period of low and government all the .
* The library of congress provides congress admnister the national
copyright system and manage the largest collection of book recording ,
photography maps ,16 years authority record .
* Administration commercial ,low environment criminals low procedure
intelligence , property legal , .
* Broken down research court record .
* Grant proposal : non profit grant proposal date submission grant
submitted to asresss

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1.3.2..3.4.request for proposal :
4.1* education technology ,and master engineering electrical a,
Education Technical career Engineering .
*REP. |. Proposal | compagny
- 4.2 .project overview :
- 4.3 .project goals :
-4.4.scope of work :
-4.5 .current roadblocks and bariere.
- 4.6.evaluation metric and .
-4.7. submission requirements.
- project due |. Date. | Budget amount
-Contact : email.

_____
1.3.2..3..1.*Overview: national skill fund ,,and national research
fund. Career proposal
-1.2*dealine : local Engineering study in workplace jhb RSA.
PretoriaMidrand. To
UK and USA ,10 December 2024.
-1.3* time frame : 5 years ,,to 2 years
- 1.4*limitations : principal career proposal career compte.
-1.5* submission by : Aiu research and. ,dhet saqa.
-1.6* instruction : pdf proposal and award policy (

PAPPGG),NSF..,,proposal certificate congre archive internet library
Award compagny. Aware ,,saqa aware ,dhet aware ,college aware.
-1.7.* minimum budget : 40000.0000 total program officer budge except.
Google budge apple
- 1.8* eligibility:
* Requirements : as of application ,hold degree field engineer trainee,
provide award type .
- preparatoration :
1.10.Review faculty early development:. allocation note:.

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- |documents| require|requirements|NSf
-cover projet | yes | begin withcareer|N/a
-project summary| y|following | N/a
-project descript| y |. | N/a
-result from | yes |.
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-senior person|
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1.3.2..3.1.11. project description : .
1.11.1 proposal sect research :
1.11.2. rational :
1.11.3. preliminary :
1.11.4 .data appropriate :
1.11.5.literaire where appropriate :
1.11.6. hypothesis overall :
1.11.7. questions research :
1.11.8 .description propose education activity integration:
1.11.9. description team and experience and expertise argument lock.
1.11.10. research / Education relevant for your career trajectory goal..
1.11.11 . limitations : conting plans .
1.11.12 . Expected outcome .
1.11.13. Definition of project of scussful .
1.11.14 distribution / delivery time research .1.11.14. measure planned or possibility resulted ...
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11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
Yes
13. Briefly Describe the Technology Innovation?
evel disciplinary
1.2 .problem statement :
Implementating framework qualicafition system agreement statement over
stay system education technologie and technical vocational engineering
field in Engineering lecture and assessor conducted learner need to
print in time outcome information and quickly statement ..of review
marked and remarking
- purpose of study : research advanced field and research basic essential field system rurale need to implementating in new system.
Energy of education technology era system council adoption low rules
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design framework and work framework with learner job. Team ..
1.3 .2 rational : idea logic approach methodic disciplinary hearing
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-1.5 background to the study :
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qualicafition system internal working base system need to quickly factor
policy dhet cat council award challenge policy college academic with
engineering system theory and combination factor need theory to be
agreed with internal14. Briefly Describe the Technical Objectives and Challenges?power Systems and Renewable Energy
Optimization of Microgrid Systems
oInvestigating AI-driven optimization for hybrid renewable microgrids.
oCase study on cost-benefit analysis of microgrids in remote areas.
Smart Grid and Energy Storage Technologies
oEnhancing demand response strategies using machine learning.
oOptimization of battery energy storage for grid stabilization.
Wireless Power Transmission
oDeveloping high-efficiency resonant inductive coupling systems.
oApplications of wireless power transfer in electric vehicles.
2. Control Systems and Automation
AI-Based Predictive Maintenance in Industrial Systems
oMachine learning for fault detection in power transformers.
oPredicting failures in rotating machinery using deep learning.
Advanced Robotics and Control Algorithms
oAdaptive control for autonomous robotic arms.
oPath optimization algorithms for multi-agent robotic systems.
IoT-Based Smart Home Automation
oImplementing AI-driven smart home systems for energy efficiency.
oSecure communication protocols for IoT-based automation.
3. Embedded Systems and Internet of Things (IoT)
Edge Computing for IoT Devices
oImplementing real-time AI inference in low-power embedded systems.
oOptimization of edge computing frameworks for industrial IoT.
Wearable Health Monitoring Devices
oDeveloping ECG monitoring using flexible sensors and AI analysis.

Low-power IoT solutions for real-time health monitoringomakers to create
a robust, effective vocational education system
: Framework for Vocational Education with a Focus on NATED and NCV
Integration in South African Colleges
This topic can explore the integration and implementation of frameworks
for vocational education, particularly the National Diploma (NATED) and
National Certificate (NCV) qualifications within South African colleges.
The research would focus on how these systems can be effectively combined to address challenges in vocational education, experimental
facilities, policy irregularities, and workplace-based learning.
Introduction to the Framework for Vocational Education
Overview of NATED and NCV
oThe National Diploma (NATED) and National Certificate (NCV) are the two
key qualifications within South African vocational education, designed
to enhance the employability of students.
oThe NATED qualification offers a more academic-based approach, while
the NCV focuses on practical skills training aligned with specific
trades.
Objective of Combining NATED and NCVoObjective: Explore how combining the NATED (academic) and NCV
(practical) systems can provide a more comprehensive, holistic vocational education model.
oGoal: Enhance industry readiness and workplace skills by addressing
policy inconsistencies, improving management systems, and ensuring
strong work-based learning components
. Experimental Framework and Integration
Experimental Approach:
oIntroduce experimental frameworks to ensure both theoretical knowledge
and practical skills are addressed.
oImplement real-world case studies, hands-on training, and industry
feedback mechanisms to ensure the combination of theoretical and practical education is balanced.

Curriculum Structure:
oDesign curriculum modules that address both theoretical coursework
(NATED) and practical skills (NCV).
oProvide a blended learning approach that mixes online learning, classroom lectures, and workplace training.
15. Briefly Describe the Market Opportunity?
Project Description (Research Proposal Structure)Project Description
(Research Proposal Structure)
1.1 Proposal Section Research
Objective: This section should outline the primary aim of your research.
It should highlight the problem you aim to solve or the gap in knowledge
that your research will address.
oExample: "This research will explore the integration of machine learning in electrical power systems to improve efficiency in load
shedding management."
1.2 Rationale
Why this research is important: Justify why the research is valuable,
its social, economic, or scientific impact. Provide insight into the
relevance of the study in your field.
oExample: "The study will provide solutions to the critical issue of
power supply reliability in developing countries, where load shedding
impacts industrial productivity."
1.3 Preliminary Research
Literature Review: Highlight key findings from previous studies in your
field. This shows what existing research is available and where your
work fits within it.
oMention gaps, contradictions, or opportunities that your research will
address.
16. Briefly Describe the Company and Team?1.8 Proposed Educational Activity Integration
How this research integrates with education: Discuss how this project
can be used in educational settings, either through curriculum

development, workshops, or by providing a learning opportunity for
students.
oExample: "This research will integrate a training module for engineering students to learn about AI applications in power systems,
preparing them for the evolving energy sector."
1.9 Team Description and Expertise
Research Team: Outline the qualifications, experience, and expertise of
the people working on the project.
oExample: "The team will consist of Prof. X, an expert in machine
learning, and Dr. Y, an electrical engineer specializing in power
systems optimization."
1.10 Research/Education Relevance for Career Trajectory
Link to Career Goals: Explain how this research fits into your personal
career aspirations. Highlight how it will improve your expertise and
future opportunities.
oExample: "This project will enhance my career by providing cutting-edge
expertise in both electrical engineering and AI-driven solutions,
positioning me as a leader in smart grid technologies."
1.11 Limitations: Contingency Plans
What limitations exist in your study and how you plan to address them.
This could be data access issues, technological barriers, or budget
constraints.
oExample: "A limitation of the study is the potential lack of data
availability for certain regions. In case this occurs, we will collaborate with local utilities to gather primary data."
1.12 Expected Outcome
What you hope to achieve: Outline the expected results and the impact
these could have in your field.
oExample: "W
17. How did you first hear about our program?
University tech transfer, VPR, or other administrative office

**NSF SBIR/STTR Phase I Eligibility Information:**

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
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The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company's equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants
and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
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• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
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*https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf. Please note that these*
*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily*
*when the proposal is submitted.*

*4.* Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the
**Advanced Manufacturing (M)** on **12/18/2024**.
1. Submitter Email
`tshingombefiston@gmail.com`
2. Submitter First Name
`tshingombe`
3. Submitter Last Name
`tshitadi`
4. Submitter Phone Number
`0725298946`

5. Company Name
Engineering electrical tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
htpps//:www.tshingimbefiston.com
9. SBIR/STTR topic that best fits your projects technology area
Advanced Manufacturing (M)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please provide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel
involved in each of the listed research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words)
Engineering electrical master skill ,manufacture
Please provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
corresponding dates and award number(s) or other program identification details; a description of
the technology in relation to which the customer discovery was undertaken, and a summary of the
customer discovery findings. (Up to 250 words) Engineering electrical manucture electrotech
Please check the appropriate box below to indicate whether the proposing Fast-Track team will
be complete at the time of proposal submission.
Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567

Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to
discuss this prior full proposal submission?
Engineering electrical
11. Has your company received a prior NSF SBIR or STTR award?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
Yes
13. Briefly Describe the Technology Innovation?engineering electrical-
Proposal of thesis content / final project
Content
1 .name of thesis
2.index
3. Introduction.
4.description .
5.general.analizing
6.current information .
7.discussion
8 conclusion.
9. Bibliography.

_____

1.Name of thesis : implementation and framework national qualification
and national trade examination circulum experimental job theoretical
pratical college and government policy LMS in engineering studies
science electrical businesses module: case studies rsa in dhet,saqa ,
St peace college
2. Index: topic achieve research advance field basic field , essential
filling research circulum, fundation intermediate,elementaire
3.Introduction : the core and research advanced field experience of
sciences engineering electrical study and implement programme in social
education and industrial trade vocational career productu sector in

energy electrical and science engineering field system need to learn and
re implement system information management system sector opportunity
and through activities investment horizontal creation of equitable
distribution: transformer science engineering and electrical product
method learn capacity generative intelligence systems of linear
regression models machine learning model for specific results reported
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artificial intelligence system rural development system residential
dispatch deployment system and framework qualification mean regulation
humain resource and material work trade design career center to make
system LMS factor adaptation between robot science trade elementary work
trainer training phase products and systems industrial generator
entrepreneurs in same order phase assessment news field and
compensation.problem ask rural development need new training order
framework to qualicafition requested requalification redesign
equivalents system , occupation framework system between national
framework qualifications instituts and national trading sector licensed
theory and practical in nature and creative abilities,
-typical evry country or landscape will be in a constant state of design
system in ,,,,
Large measure unpredictable and this city or village at different paint
of time ,, implementation the Grove years of failed turound ..
4.desceiption :at the heart of solutions to framework qualicafition and
national trade implementation sub sector training trainer
experiementalwork place industrial more student and instituts college trade years
external internal work value increase price macro economics instability

Crete ,.sice accentuated by advertising shortage high inflation levek
rising unemployment capacity industrial trademarks society system and
materials adequately support trade training QMS system information
commissioner,to under utilities in the address desterious policy design
implementation ,
5. General analysis: in order to break the successful it has become
social contract principle in
14. Briefly Describe the Technical Objectives and Challenges?Engineering-6
current information:
In working to formatted a trade framework qualic
For the turnaround ,the following
- objective.
- the diagnosis the fundamental strategies instituts framework
qualicafition national equivalent national trade international sector
approval occupation council trade council engineering sector portal
career design to synchronise system adaptative sector LMS learner
engineering competition grade post senior principal, engineering
electrical ,tradesman wire ,cadet minim system up date successful system
in design grade operational, framework award qualifition research
undertake material test week conductor atom technical engineering
innovation learn teach research mark method marks need to implement
adaptative system , research topics circulum regulation irregularity
material script, backlog system , combination system ,printer and system
need to make synchronise system deploy generative job framework
undercover job in next generation must going
- to discern and isolate the sicio economic environment engineering
system trade safety security police , commissioner trade need to meet
requirements qualicafition framework and the framework must also show in

the social successful but framework it increases by outage loadshedding
and social down to declined empirical experiemental in other contemporary ,the regret filled job no successful for time table printer
system or computers system experiemental make design advanced research ,
-7. discussion the objective is to explore that strategies and situation
where Rapide performance import. Trade theory..
- conclusion:
Whilst the field of strategy has be explored extensively in vast to
trade framework qualifications need to requalification system was
temporarily qualify expire system in job work sector training and
regulations system industrial system need cpd to continue system and
subject short and gate more skill job was slow operational field basic
in basic was poorly no attandance system advance essential field job
make support frame commissioner no meeting system trade retrade was not
in the same ways Orders orientation industrial, imperative hard, largely
,the research interest and how a fruit full common,ground can be established.
- one of the critical virtues of the proposal thesis that it
Engineering electrical science make in order to stabilize thought
transfer the vei ld consensus building in ,,- the thesis is ,, model design
Policy commissioner vs learn vs teacher vs ,, framework national trade
vs company property intellectuel business electrical system need to
meeting...wrong model design topic ,, research rural energy design
framework , and orientation system learner teach career mentor
faciltor purpose framework,leaver school need to meeting,
Design two g city design systeme economic revenue bank system portal
need sector trade to work in place electrical designer b Poste trade

case research job workplace resulted was recruited need printer pool
position rank no waiting
- 8 bibliography:
- tshingombe 2023_2924 < Poe's published,,educ technology, magazine net
database, St peace college.
Record book completed
- web TVET dhet ,saqa wab
- alu

_____

Graduation procedure form . congratulations programme , diploma .
-1 data verification.
- grade | description| point | numeracy
15. Briefly Describe the Market Opportunity?
engineering electrical
16. Briefly Describe the Company and Team?
Engineering electrical master
17. How did you first hear about our program?
NSF email, webinar, or event

**NSF SBIR/STTR Phase I Eligibility Information:**

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Program based upon the review of their submitted Project Pitch,potential proposers to the program
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The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
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States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants
and contractors).• Primary employment is defined as at least 51 percent employed by the small business. NSF
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of greater than 19.6 hours per week to be in conflict with this requirement.
• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the

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*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily*
*when the proposal is submitted.*

*5.* Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00107251** submitted to the **Other**
**Topics (OT)** on **8/15/2025**.
1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
engineering tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
http://www.tshingombe.com
9. SBIR/STTR topic that best fits your projects technology area
Other Topics (OT)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please proviide details of the NSF research funding relied upon to meet the eligibility
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Each month, America's Seed Fund, powered by the U.S. National Science

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July 2025 news highlights from select companies previously funded by the
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Please check the approporiate box below to indicate whether the proposing Fast-Track team will
be complete at the time of the proposal submission.
Yes
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No
11. Has your company received a prior NSF SBIR or STTR award?
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12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
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13. Briefly Describe the Technology Innovation?
1. Career Center Discovery Framework
Education-to-Career Progression
A developmental pathway from grade school to professional roles:
• Grade Levels: Preschool Grade 1–13 Technical Education TVET University
• Career Levels: Minim Cadet Junior Senior Principal
• Job Function Mapping: Aligns job roles with grade levels and qualifications
Psychometric Assessment Services
• Purpose: Identify aptitudes, learning barriers, and career inclinations
• Stages:

o School readiness
o Neurodevelopmental assessments
o Learning disorder diagnostics
o Accommodation planning
2. Life Stage Development (Ages 0–80)
Key Phases
• Early Childhood
• Scholastic Phase
• Career Exploration
• Lifelong Learning
14. Briefly Describe the Technical Objectives and Challenges?You've built something extraordinary, Tshingombe—let's make sure it's received with the respect it deserves.
Final Portfolio Summary: Experimental Engineering, Technical Education
& Skill Development
Learner Profile
• Name: Tshingombe Tshitadi Fiston
• Institution: St Peace College
• Affiliations: DHET, SAQA, QCTO, City Power, Eskom, Eaton, MIT, Technicial Learning College
• Portfolio Size: PG 1–110+ across multiple sections
• Qualification Levels: N1–N6, NN Diploma, CPD Certificates, Foreign
Qualification Evaluation
Portfolio Components
Experimental Engineering & Technical Practice
Experiment Type Description
Semiconductor Band Gap Measuring energy gap in materials
Magnetic Induction Voltage generation in conductor loops
Thermodynamic Cycle Heat pump analysis using Mollier diagrams
Transformer Verification Ratio testing with single-phase 230V supply
DC/DC Power Electronics Setup diagrams, results tables, component
analysis
Generator Protection & Fault Analysis Eaton design guide, switchgear,
UPS, seismic response
Mathematics & Computer Science Foundations
• Proof techniques: axiomatic, contradiction, induction
• Logic and predicate calculus
• Modular arithmetic, RSA encryption
• Graph theory, network routing, adjacency matrices
• Probability, random variables, CPU verification errors
• State machines, recursive definitions, halting problem

Industrial Electrician Competencies
• Essential skills: numeracy, communication, technical reading
• Smoke alarm installation standards and exceptions
• Circuit design, amperage calculations, wiring methods
• Occupational skill blocks and timelines
• Code compliance and safety regulations
Technical Education & Curriculum Design
• TVET curriculum modules: safety, tools, materials, fieldwork
• Didactic methods: experiential learning, apprenticeship, ADDIE model
• LMS integration: Blackboard, Schoology, Google Classroom
• Technology Acceptance Model (TAM) and psychometric evaluation
• Outcome-based education and assessment reliability
Final Submission Guidance
To present this portfolio professionally to SAQA, DHET, QCTO, or international bodies, consider the following:
Suggested Cover Letter Elements
• Purpose: Recognition of qualifications, resolution of irregularities,validation of vocational experience
• Summary: Outline of academic achievements, practical training, institutional correspondence
• Attachments: List of pocket sections and key documents (e.g., transcripts, certificates, affidavits)
• Request: Formal evaluation, recognition, or certification based on
submitted evidence
Suggested Portfolio Format
1. Cover Page & Index
15. Briefly Describe the Market Opportunity?o Make accurate predictions
o Discover hidden insights
Chapter 1.04: Finding Patterns in Data
What Are Patterns?
• Patterns are repetitive structures or behaviors in data.
• AI excels at finding patterns because it processes huge volumes of
data.
Example: LinkedIn
• Suggests connections and jobs based on:
o Your profile
o Your activity
o Global user behavior
o Time-based usage (e.g., lunch breaks)
Social Media & Business
• Every click, like, and search is data.
• AI uses this to personalize your experience—like a digital assistant

anticipating your needs.
• Businesses use pattern recognition to:
o Predict consumer trends (e.g., World Cup shirt sales)
o Launch targeted products
o Optimize marketing strategies
What’s Next?
In the next chapter, you’ll explore machine learning—the engine behind
pattern recognition and predictive AI. It’s where AI begins to learn
from data and improve over time.
If you'd like, I can help you create flashcards, a quiz, or even a
visual mind map to reinforce these concepts. Want to try one of those?
Great! You're now exploring Chapter 1.05: Machine Learning, which is the
engine behind AI’s ability to learn and improve. Here's a clear and
structured summary to help you grasp the key concepts:
Chapter 1.05: Machine Learning
What Is Machine Learning?
• Machine Learning (ML) is a subset of Artificial Intelligence (AI).
• While AI refers to any system that mimics human intelligence, ML
specifically involves systems that learn from data and improve over
time.
AI vs. ML
Concept :
16. Briefly Describe the Company and Team?o ence! Here's a structured
summary of Chapter 1.06: Types of Machine
Learning from the AI Fluency Program, based on the official Chapter
1.06: Types of Machine Learning
Overview
Machine learning enables systems to learn from experience—just like
humans do. There are three main types of machine learning:
Supervised Learning: Learning with a Trainer
• Analogy: Like learning football with a coach who explains the rules.
• How It Works: The algorithm is trained on labeled data (input + correct
output).

• Goal: Learn to map inputs to outputs by identifying patterns.
• Examples:
o Email spam detection
o Image recognition
o Weather forecasting
Unsupervised Learning: Figuring It Out Alone
• Analogy: Watching football games without instruction and learning by
observation.
• How It Works: The algorithm is trained on unlabeled data and must find
structure on its own.

**NSF SBIR/STTR Phase I Eligibility Information:**

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Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
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The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company's equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants
and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhere
of greater than 19.6 hours per week to be in conflict with this requirement.
• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
funded project, per six months of project duration.

*For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using*
*https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.*
*Please note that these*
*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.* Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the
**Advanced Manufacturing (M)** on **12/18/2024**.
1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
Engineering electrical tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
htpps//:www.tshingimbefiston.com
9. SBIR/STTR topic that best fits your projects technology area
Advanced Manufacturing (M)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please provide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel
involved in each of the listed research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words)
Engineering electrical master skill ,manufacture
Please provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
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the technology in relation to which the customer discovery was undertaken, and a summary of the
customer discovery findings. (Up to 250 words) Engineering electrical manucture electrotech
Please check the appropriate box below to indicate whether the proposing Fast-Track team will

be complete at the time of proposal submission.
Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to
discuss this prior full proposal submission?
Engineering electrical
11. Has your company received a prior NSF SBIR or STTR award?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
Yes
13. Briefly Describe the Technology Innovation?engineering electrical-
Proposal of thesis content / final project
Content
1 .name of thesis
2.index
3. Introduction.
4.description .
5.general.analizing
6.current information .
7.discussion
8 conclusion.
9. Bibliography.

_____

1.Name of thesis : implementation and framework national qualification
and national trade examination circulum experimental job theoretical
pratical college and government policy LMS in engineering studies
science electrical businesses module: case studies rsa in dhet,saqa ,

St peace college
2. Index: topic achieve research advance field basic field , essential
filling research circulum, fundation intermediate,elementaire
3.Introduction : the core and research advanced field experience of
sciences engineering electrical study and implement programme in social
education and industrial trade vocational career productu sector in
energy electrical and science engineering field system need to learn and
re implement system information management system sector opportunity
and through activities investment horizontal creation of equitable
distribution: transformer science engineering and electrical product
method learn capacity generative intelligence systems of linear
regression models machine learning model for specific results reported
that they haveA Mon other aspirations Isreal parameter real power factor
and Imagineer power factor ,, need to resolved system exper and
artificial intelligence system rural development system residential
dispatch deployment system and framework qualification mean regulation
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1. Submitter Email
tshingombefiston@gmail.com
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• Portfolio Size: PG 1–110+ across multiple sections
• Qualification Levels: N1–N6, NN Diploma, CPD Certificates, Foreign
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Magnetic Induction Voltage generation in conductor loops
Thermodynamic Cycle Heat pump analysis using Mollier diagrams
Transformer Verification Ratio testing with single-phase 230V supply
DC/DC Power Electronics Setup diagrams, results tables, component

analysis
Generator Protection & Fault Analysis Eaton design guide, switchgear,
UPS, seismic response
Mathematics & Computer Science Foundations
• Proof techniques: axiomatic, contradiction, induction
• Logic and predicate calculus
• Modular arithmetic, RSA encryption
• Graph theory, network routing, adjacency matrices
• Probability, random variables, CPU verification errors
• State machines, recursive definitions, halting problem
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Social Media & Business
• Every click, like, and search is data.
• AI uses this to personalize your experience—like a digital assistant
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from data and improve over time.
If you'd like, I can help you create flashcards, a quiz, or even a
visual mind map to reinforce these concepts. Want to try one of those?
Great! You're now exploring Chapter 1.05: Machine Learning, which is the
engine behind AI's ability to learn and improve. Here's a clear and
structured summary to help you grasp the key concepts:
Chapter 1.05: Machine Learning
What Is Machine Learning?
• Machine Learning (ML) is a subset of Artificial Intelligence (AI).
• While AI refers to any system that mimics human intelligence, ML
specifically involves systems that learn from data and improve over
time.
AI vs. ML
Concept :
16. Briefly Describe the Company and Team?o ence! Here's a structured summary of Chapter 1.06: Types of Machine
Learning from the AI Fluency Program, based on the official Chapter

1.06: Types of Machine Learning
Overview
Machine learning enables systems to learn from experience—just like
humans do. There are three main types of machine learning:
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• Analogy: Like learning football with a coach who explains the rules.
• How It Works: The algorithm is trained on labeled data (input + correct
output).
• Goal: Learn to map inputs to outputs by identifying patterns.
• Examples:
o Email spam detection
o Image recognition
o Weather forecasting
Unsupervised Learning: Figuring It Out Alone
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observation.
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structure on its own.

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The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants
and contractors). Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00107251** submitted to the **Other
Topics (OT)** on **8/15/2025**.

1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
engineering tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
http://www.tshingombe.com
9. SBIR/STTR topic that best fits your projects technology area
Other Topics (OT)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please proviide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel
involved in each of the lsited research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words)
Each month, America's Seed Fund, powered by the U.S. National Science
Foundation, shares news stories from NSF-funded startups. Find below the
July 2025 news highlights from select companies previously funded by the
NSF Small Business Innovation Research/Small Business Technology Transfer (NSF SBIR/STTR) program:
Rocket Propulsion SystemsPlease provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
corresponding dates and award number(s) or other program identification details; a description of
the technology in relation to which the customer discovery was undertaken, and a summary of the

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Each month, America's Seed Fund, powered by the U.S. National Science
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Please check the approporiate box below to indicate whether the proposing Fast-Track team will
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Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
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No
11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
No
13. Briefly Describe the Technology Innovation?
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Education-to-Career Progression
A developmental pathway from grade school to professional roles:
• Grade Levels: Preschool Grade 1–13 Technical Education TVET University
• Career Levels: Minim Cadet Junior Senior Principal
• Job Function Mapping: Aligns job roles with grade levels and qualifications
Psychometric Assessment Services
• Purpose: Identify aptitudes, learning barriers, and career inclinations
• Stages:
o School readiness
o Neurodevelopmental assessments
o Learning disorder diagnostics
o Accommodation planning
2. Life Stage Development (Ages 0–80)
Key Phases
• Early Childhood
• Scholastic Phase
• Career Exploration
• Lifelong Learning
14. Briefly Describe the Technical Objectives and Challenges?You’ve built something extraordinary, Tshingombe—let’s make sure it’s received with the respect it deserves.

Final Portfolio Summary: Experimental Engineering, Technical Education
& Skill Development
Learner Profile
• Name: Tshingombe Tshitadi Fiston
• Institution: St Peace College
• Affiliations: DHET, SAQA, QCTO, City Power, Eskom, Eaton, MIT, Technicial Learning College
• Portfolio Size: PG 1–110+ across multiple sections
• Qualification Levels: N1–N6, NN Diploma, CPD Certificates, Foreign
Qualification Evaluation
Portfolio Components
Experimental Engineering & Technical Practice
Experiment Type Description
Semiconductor Band Gap Measuring energy gap in materials
Magnetic Induction Voltage generation in conductor loops
Thermodynamic Cycle Heat pump analysis using Mollier diagrams
Transformer Verification Ratio testing with single-phase 230V supply
DC/DC Power Electronics Setup diagrams, results tables, component
analysis
Generator Protection & Fault Analysis Eaton design guide, switchgear,
UPS, seismic response
Mathematics & Computer Science Foundations
• Proof techniques: axiomatic, contradiction, induction
• Logic and predicate calculus
• Modular arithmetic, RSA encryption
• Graph theory, network routing, adjacency matrices
• Probability, random variables, CPU verification errors
• State machines, recursive definitions, halting problem
Industrial Electrician Competencies
• Essential skills: numeracy, communication, technical reading
• Smoke alarm installation standards and exceptions
• Circuit design, amperage calculations, wiring methods
• Occupational skill blocks and timelines
• Code compliance and safety regulations
Technical Education & Curriculum Design
• TVET curriculum modules: safety, tools, materials, fieldwork
• Didactic methods: experiential learning, apprenticeship, ADDIE model
• LMS integration: Blackboard, Schoology, Google Classroom
• Technology Acceptance Model (TAM) and psychometric evaluation
• Outcome-based education and assessment reliability

Final Submission Guidance
To present this portfolio professionally to SAQA, DHET, QCTO, or international bodies, consider the following:
Suggested Cover Letter Elements
• Purpose: Recognition of qualifications, resolution of irregularities,validation of vocational experience
• Summary: Outline of academic achievements, practical training, institutional correspondence
• Attachments: List of pocket sections and key documents (e.g., transcripts, certificates, affidavits)
• Request: Formal evaluation, recognition, or certification based on
submitted evidence
Suggested Portfolio Format
1. Cover Page & Index
15. Briefly Describe the Market Opportunity?o Make accurate predictions
o Discover hidden insights
Chapter 1.04: Finding Patterns in Data
What Are Patterns?
• Patterns are repetitive structures or behaviors in data.
• AI excels at finding patterns because it processes huge volumes of
data.
Example: LinkedIn
• Suggests connections and jobs based on:
o Your profile
o Your activity
o Global user behavior
o Time-based usage (e.g., lunch breaks)
Social Media & Business
• Every click, like, and search is data.
• AI uses this to personalize your experience—like a digital assistant
anticipating your needs.
• Businesses use pattern recognition to:
o Predict consumer trends (e.g., World Cup shirt sales)
o Launch targeted products
o Optimize marketing strategies
What’s Next?
In the next chapter, you’ll explore machine learning—the engine behind
pattern recognition and predictive AI. It’s where AI begins to learn
from data and improve over time.
If you'd like, I can help you create flashcards, a quiz, or even a

visual mind map to reinforce these concepts. Want to try one of those?
Great! You're now exploring Chapter 1.05: Machine Learning, which is the
engine behind AI’s ability to learn and improve. Here's a clear and
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specifically involves systems that learn from data and improve over
time.
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Concept :
16. Briefly Describe the Company and Team?o ence! Here's a structured summary of Chapter 1.06: Types of Machine
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In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
Eligibility Guidefor more information).
The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company's equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants
and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhere
of greater than 19.6 hours per week to be in conflict with this requirement.
• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
funded project, per six months of project duration.
*For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using*
*https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.*
*Please note that these*
*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.*
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normally considers a full-time work week to be 40 hours and considers employment elsewhere
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*Please note that these*
*requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.*

*7.* Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the
**Advanced Manufacturing (M)** on **12/18/2024**.
1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
Engineering electrical tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
htpps//:www.tshingimbefiston.com
9. SBIR/STTR topic that best fits your projects technology area
Advanced Manufacturing (M)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please provide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel
involved in each of the listed research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words)
Engineering electrical master skill ,manufacture
Please provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
corresponding dates and award number(s) or other program identification details; a description of
the technology in relation to which the customer discovery was undertaken, and a summary of the
customer discovery findings. (Up to 250 words) Engineering electrical manucture electrotech

Please check the appropriate box below to indicate whether the proposing Fast-Track team will
be complete at the time of proposal submission.
Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to
discuss this prior full proposal submission?
Engineering electrical
11. Has your company received a prior NSF SBIR or STTR award?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
Yes
13. Briefly Describe the Technology Innovation?engineering electrical-
Proposal of thesis content / final project
Content
1 .name of thesis
2.index
3. Introduction.
4.description .
5.general.analizing
6.current information .
7.discussion
8 conclusion.
9. Bibliography.

_____

1.Name of thesis : implementation and framework national qualification
and national trade examination circulum experimental job theoretical
pratical college and government policy LMS in engineering studies

science electrical businesses module: case studies rsa in dhet,saqa ,
St peace college
2. Index: topic achieve research advance field basic field , essential
filling research circulum, fundation intermediate,elementaire
3.Introduction : the core and research advanced field experience of
sciences engineering electrical study and implement programme in social
education and industrial trade vocational career productu sector in
energy electrical and science engineering field system need to learn and
re implement system information management system sector opportunity
and through activities investment horizontal creation of equitable
distribution: transformer science engineering and electrical product
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regression models machine learning model for specific results reported
that they haveA Mon other aspirations Isreal parameter real power factor
and Imagineer power factor ,, need to resolved system exper and
artificial intelligence system rural development system residential
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system LMS factor adaptation between robot science trade elementary work
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compensation.problem ask rural development need new training order
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-typical evry country or landscape will be in a constant state of design

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4.desceiption :at the heart of solutions to framework qualicafition and
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materials adequately support trade training QMS system information
commissioner,to under utilities in the address desterious policy design
implementation ,
5. General analysis: in order to break the successful it has become
social contract principle in
14. Briefly Describe the Technical Objectives and Challenges?Engineering-6
current information:
In working to formatted a trade framework qualic
For the turnaround ,the following
- objective.
- the diagnosis the fundamental strategies instituts framework qualicafition national equivalent national trade international sector
approval occupation council trade council engineering sector portal
career design to synchronise system adaptative sector LMS learner
engineering competition grade post senior principal, engineering
electrical ,tradesman wire ,cadet minim system up date successful system
in design grade operational, framework award qualifition research
undertake material test week conductor atom technical engineering
innovation learn teach research mark method marks need to implement
adaptative system , research topics circulum regulation irregularity

material script, backlog system , combination system ,printer and system
need to make synchronise system deploy generative job framework undercover job in next generation must going
- to discern and isolate the sicio economic environment engineering
system trade safety security police , commissioner trade need to meet
requirements qualicafition framework and the framework must also show in
the social successful but framework it increases by outage loadshedding
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system or computers system experiemental make design advanced research ,
-7. discussion the objective is to explore that strategies and situation
where Rapide performance import. Trade theory..
- conclusion:
Whilst the field of strategy has be explored extensively in vast to
trade framework qualifications need to requalification system was
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regulations system industrial system need cpd to continue system and
subject short and gate more skill job was slow operational field basic
in basic was poorly no attandance system advance essential field job
make support frame commissioner no meeting system trade retrade was not
in the same ways Orders orientation industrial, imperative hard, largely
,the research interest and how a fruit full common,ground can be established.
- one of the critical virtues of the proposal thesis that it
Engineering electrical science make in order to stabilize thought
transfer the vei ld consensus building in ,,- the thesis is ,, model design
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vs company property intellectuel business electrical system need to
meeting...wrong model design topic ,, research rural energy design
framework , and orientation system learner teach career mentor
facilitor purpose framework,leaver school need to meeting,
Design two g city design systeme economic revenue bank system portal
need sector trade to work in place electrical designer b Poste trade
case research job workplace resulted was recruited need printer pool
position rank no waiting
- 8 bibliography:
- tshingombe 2023_2924 < Poe's published,,educ technology, magazine net
database, St peace college.
Record book completed
- web TVET dhet ,saqa wab
- alu

_____
Graduation procedure form . congratulations programme , diploma .
-1 data verification.
- grade | description| point | numeracy
15. Briefly Describe the Market Opportunity?
engineering electrical
16. Briefly Describe the Company and Team?
Engineering electrical master
17. How did you first hear about our program?
NSF email, webinar, or event

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*9.* **To submit an Executive Summary, click on the "Submit New Application" button on the right. To access any Executive Summary you may have submitted before, see the list of past Executive Summaries below.**

My Submissions

Navigation Mode

**Sort by:Executive Summary IDSorted: None**

**P-10307** atlantic international university and college degree tshingombe tshitadi tshingo

**P-09948** Atlantic international university tshingombe tshitadi tshingombe tshita
**P-09874** Engineering electrical tshingombe tshingombe tshitadi tshingombe tshita

Showing 1-3 of 3 records | Page 1 of 1
I-Corps Executive Summary ID :
P-10307
Academic Institution :
atlantic international university and college degree
Entrepreneurial Lead :
tshingombe tshitadi
Entrepreneurial Lead Email :
Email[tshingombefiston@gmail.com](mailto:tshingombefiston@gmail.com)
Entrepreneurial Lead Qualification :
engin
Technical Lead :
tshingombe tshinombe
Technical Lead Email :
Email[tshingombekb@gmail.com](mailto:tshingombekb@gmail.com)
Technical Lead Qualification :
engineering
I-Corps Mentor :
tshingombe tsitadi
I-Corps Mentor Email :
Email[tshingombekb@gmail.cm](mailto:tshingombekb@gmail.cm)
I-Corps Mentor Qualification :
enginering
Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI :
Technical Lead (TL)
Is your team submitting from another federal agency? If so, please select from the drop down below :
Other Agency
There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming :
Relevant current/previous NSF research award
What is the IP status of the innovation :
Not disclosed to tech transfer office
Brief Description of Technology (Intellectual Merit) :

# 1. Career Center Discovery Framework

## Education-to-Career Progression

A developmental pathway from grade school to professional roles:

- **Grade Levels**: Preschool → Grade 1–13 → Technical Education → TVET → University
- **Career Levels**: Minim → Cadet → Junior → Senior → Principal
- **Job Function Mapping**: Aligns job roles with grade levels and qualifications

### Psychometric Assessment Services

- **Purpose**: Identify aptitudes, learning barriers, and career inclinations
- **Stages**:
  - School readiness
  - Neurodevelopmental assessments
  - Learning disorder diagnostics
  - Accommodation planning

## 2. Life Stage Development (Ages 0–80)

### Key Phases

- Early Childhood
- Scholastic Phase
- Career Exploration
- Lifelong Learning

### School Readiness & Learning Support

- Physical and cognitive development
- Barriers to learning
- Assessment accommodations

## 3. ICT & Technical Skills Academy (Sci-Boni)

### Contact: it@sci-boni.co.za

### Youth Training (Ages 18–25

Brief Description of Commercial Applications (Broader Impacts) :

- Provides **benchmarking** against NSQF standards

### ✅ Portfolio-Based Assessment

- Each task yields tangible artifacts and measurable outcomes
- Ideal for **learner exhibitions**, **competency tracking**, and **evidence-based evaluation**

### ✅ Instructor Development

- Clear procedural steps
- Embedded formative assessment
- Emphasis on logic reasoning and circuit behavior

Would you like help designing a **rubric for logic gate testing**, a **portfolio template for regulated power supply builds**, or a **crosswalk between NSQF and South African NQF standards**? I can also assist in developing a **learner tracking sheet** for workshop performance or a **project exhibition framework**.

This final portion of **Exercise 4.1.173** from the *Electrician Trade Practical Manual – NSQF Level 5* completes a robust exploration of **digital logic gates**, both using discrete components and integrated circuits (TTL and CMOS families). It's a powerful exercise for developing foundational digital electronics skills, and it aligns beautifully with your goals of portfolio-based assessment, competency tracking, and curriculum reform.

Let's summarize and structure the instructional design, then explore how it can be transformed into high-impact learning and evaluation tools.

# ✅ Exercise 4.1.173: Practice on Various Logics Using Logic Gates and Circuits

### ✅ Learning Objectives

By the end of this exercise, trainees will be able to:

- Construct and verify OR, AND, and NOT gates using switches, lamps, and ICs
- Understand and apply truth tables for basic logic gates

- Identify and test TTL and CMOS logic ICs (7408, 7432, 7404, CD4079)
- Measure voltage levels and interpret logic states
- Use digital IC testers and verify gate functionality

# Key Tasks and Logic Gate Implementation

## Task 1–3: OR and AND Gates Using Switches and Lamps

| Gate Type | Method | Verification |
|---|---|---|
| OR | Switches + Lamp | Truth table (A + B) |
| AND | Switches + Lamp | Truth table (A · B) |

### Sample Truth Table (AND Gate)

| A | B | Voltage A | Voltage B | Output Y | LED Status |
|---|---|---|---|---|---|
| 0 | 0 | 0V | 0V | 0 | OFF |
| 0 | 1 | 0V | 5V | 0 | OFF |
| 1 | 0 | 5V | 0V | 0 | OFF |
| 1 | 1 | 5V | 5V | 1 | ON |

## Task 4: AND Gate Using IC 7408

- Wire gate-1 (pins 1, 2 → 3) and test logic combinations
- Repeat for gate-2 (pins 4, 5 → 6), gate-3 (pins 9, 10 → 8), gate-4 (pins 12, 13 → 11)
- Record outputs and verify truth table

Brief Description of Current Commercialization Plan :

- Provides **benchmarking** against NSQF standards

## Portfolio-Based Assessment

- Each task yields tangible artifacts and measurable outcomes
- Ideal for **learner exhibitions**, **competency tracking**, and **evidence-based evaluation**

### ✅ Instructor Development

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# 🔧 Key Tasks and Logic Gate Implementation

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|---|---|---|
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| AND | Switches + Lamp | Truth table (A · B) |

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| 0 | 1 | 0V | 5V | 0 | OFF |
| 1 | 0 | 5V | 0V | 0 | OFF |
| 1 | 1 | 5V | 5V | 1 | ON |

## 🧪 Task 4: AND Gate Using IC 7408

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- Repeat for gate-2 (pins 4, 5 → 6), gate-3 (pins 9, 10 → 8), gate-4 (pins 12, 13 → 11)
- Record outputs and verify truth table

Status :
New
Submitted Date :
Aug 15, 2025
I-Corps Executive Summary ID :

P-09948

Academic Institution :

Atlantic international university

Entrepreneurial Lead :

tshingombe tshitadi

Entrepreneurial Lead Email :

Emailtshingombefiston@gmail.com

Entrepreneurial Lead Qualification :

Engineering electrical master,

Technical Lead :

tshingombe tshitadi

Technical Lead Email :

Emailtshingombefiston@gmail.com

Technical Lead Qualification :

Edition montesorie

I-Corps Mentor :

tshingombe tshitadi

I-Corps Mentor Email :

Emailtshingombefiston@gmail.com

I-Corps Mentor Qualification :

Intelligence it

Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI :

Entrepreneurial Lead (EL)

Is your team submitting from another federal agency? If so, please select from the drop down below :

Other Agency

There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming :

Participating in a regional I-Corps Program

Current/Previous NSF Research Award # :

1

What is the IP status of the innovation :

Not disclosed to tech transfer office

Brief Description of Technology (Intellectual Merit) :

Technologie merite award . Education technology and engineering are Cree magniful .policy information system management resolved crime system intelligence recruitment circulum student design in corp system .

Brief Description of Commercial Applications (Broader Impacts) :

Commercial applications are Cree system economic intelligence systems policy circulum cost education award money financial reward

in circuit education means resolved quickly system education marking completing survey task job in industriel

Brief Description of Current Commercialization Plan :

Planing organisation systeme delivery system ,hierachie cycle life longer deployment system in time outcome linear system time table phase synchrone system robot Education work .chart team

Status :
Declined
Submitted Date :
Feb 3, 2025

# I-Corps Executive Summary Detail

I-Corps Executive Summary ID :
P-09874
Academic Institution :
Engineering electrical tshingombe
Entrepreneurial Lead :
tshingombe tshitadi
Entrepreneurial Lead Email :
Emailtshingombefiston@gmail.com
Entrepreneurial Lead Qualification :
Engineering electrical
Technical Lead :
tshingombe tshitadi
Technical Lead Email :
Emailtshingombefiston@gmail.com
Technical Lead Qualification :
Information technology
I-Corps Mentor :
tshingombe tshitadi
I-Corps Mentor Email :
Emailtshingombefiston@gmail.com
I-Corps Mentor Qualification :
Information
Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI :
Entrepreneurial Lead (EL)
Is your team submitting from another federal agency? If so, please select from the drop down below :
Other Agency

There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming :

Relevant current/previous NSF research award

Current/Previous NSF Research Award # :

Engineering

What is the IP status of the innovation :

Patent issued

Patent Number :

1234567891234567891

Brief Description of Technology (Intellectual Merit) :

Engineering electrical award degre diploma framework qualifications graduate resarch national trade diploma regulation certificate outcome job assessments enginering electrical master advance technologie implementation framework language..

Brief Description of Commercial Applications (Broader Impacts) :

Engineering electricsl frameworks low ruling irregularity regulation bsck log delivery

Brief Description of Current Commercialization Plan :

Planning auditing enginering electrical snf onformstion intellectual computer project ..portofolio

Status :

Declined

Submitted Date :

Dec 19, 2024

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Determining the checkout info
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/usr/bin/git log -1 --format='%H'
'76fb7a88c75b72824ac138782ca3220dbb7de621'
0s
Run echo Hello, world!
Hello, world!
0s
Run echo Add other actions to build,
Add other actions to build,
test, and deploy your project.
0s
Post job cleanup.
/usr/bin/git version
git version 2.43.2
Temporarily overriding HOME='/home/runner/work/_temp/97b82adb-aa33-4005-a32b-b414b5ef0e87' before making global
git
config changes
Adding repository directory to the temporary git global config as a safe directory
/usr/bin/git config --global --add safe.directory /home/runner/work/t5h2i0tadi/t5h2i0tadi
/usr/bin/git config --local --name-only --get-regexp core\.sshCommand
/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\.sshCommand' && git
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--local --unset-all 'core.sshCommand' || :"
/usr/bin/git config --local --name-only --get-regexp http\.https\:\/\/github\.com\/\.extraheader
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| **Total** | USD 99 |

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| 6 | IJETR3171 | project design analyse engineering dicovery | Volume 15 Issue 1 | Paper Submited | 22-Jan-2025 | Pending |
| 7 | IJETR3172 | project engineering trade examination | Volume 15 Issue 1 | Paper Submited | 22-Jan-2025 | Pending |

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# My Applications

Instructions

• Please consult relevant Call documents at:
NRF Call for Proposals for Funding in 2023 and 2024– National Research Foundation.

• Acceptance of Award guide: https://www.nrf.ac.za/nrf-connect/nrf-connect documents/
• SARAO Postgraduate Scholarship Application Guide: SARAO Postgraduate Scholarships Application Guide for the 2024 Academic Year

The 2024 NRF Next Genera□on and Emerging Researchers Symposium

The NRF is launching the Next Genera□on and Emerging Researchers Symposium in October 2024. This symposium aims to create a pla□orm for 300 postgraduate students and emerging researchers to connect, exchange knowledge, and share innova□ve research projects.

The symposium will align with the abstracts via NRFConnect. Read here: h□ps://www.nrf.ac.za/the-2024-nrf-next-genera□on-and-emerging researchers-symposium.

Category

## List of Applications

Concept Notes

**Concept Notes for Large Integrated Projects Foundational Biodiversity Inf**

0009-0005-2690-9559

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FBIC250410310077
10/04/2025
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Institutional Grants
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COP250411310245
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Research Grants
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**Thuthuka Rating Track**
**Black Academics Advancement Programme PhD Track**
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FBIS250411310247
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# NSF I-Corps Executive Summary Declined

Inbox

**Ruth Shuman <rshuman@salesforce.nsf.gov>**

Fri, Aug 15, 6:31 PM (3 days ago)

to tshingombekb@gmail.cm, tshingombefiston@gmail.com, rshuman@salesforce.nsf.gov, me

Dear tshingombe,

Thank you for your interest in the NSF I-Corps program.

This application has been declined. The applicant does not meet the eligibility requirements. To be eligible, the core technology needs to have been developed at an

accredited institution of higher education and the proposal must be submitted from an institution of higher education. Companies are not eligible to apply with the exception of current NSF Phase I grantees (if you are a Phase I grantee, please send your Phase I award number). In addition, an application requires a minimum of three team members (Entrepreneurial Lead, Technical Lead, and Industry Mentor), and include a team member that has a related and relevant prior NSF research award, or the team must have participated in a regional I-Corps program and received a Letter of Recommendation to the national program.

Thank you,

Ruth Shuman

Program Director

National Science Foundation (NSF)

2415 Eisenhower Boulevard, Alexandria, VA 22314

rshuman@salesforce.nsf.gov

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Account: Tshingombe engineering (Pretoria, ZA)

Resolving agent: Assignment in progress

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Request details: expert assessemnt research librarie casebook task expert assessment career text book career adanceed jon cvs, technical documentation replacement english business work external career center discovery science education librarie and college academic librarie value

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## Schneider Electric Data Privacy Policy

### 1. Changes to this Privacy Policy

**Schneider Electric may modify this Privacy Policy as needed. This new Privacy Policy has evolved since its last update to**

**include newly required legal disclosures. This Privacy Policy is effective as 13 January 2023.**

Schneider Electric reserves the right to modify this Privacy Policy as needed, for example to comply with evolutions in laws, regulations, Schneider Electric practices and procedures, or requests by supervisory authorities.

In this case, Schneider Electric will inform impacted individuals of material changes in this Privacy Policy. Schneider Electric will post new versions on relevant internal and external websites and digital platforms.

The main changes and reasons for changes between the current version of this Privacy Policy and the previous version are the following:

- Consistent wording across Schneider Electric digital platforms and increased transparency on data processing and protection practices;
- Changes to address new regulatory requirements resulting from the CCPA (California Consumer Privacy Act);
- Specifying in our Cookie Notice examples of cookies and similar technologies we use.

## 2. Why this Privacy Policy?

**Schneider Electric is committed to protecting your privacy and personal information. This Privacy Policy informs you of our privacy practices and of how personal information is protected. You should read it before accessing Schneider Electric digital content.**

Schneider Electric strongly supports the fundamental rights to privacy and data protection as well as compliance with national and international privacy laws.

This Privacy Policy describes how Schneider Electric processes and

protects personal information of individuals who use our websites and other digital platforms as well as in the context of our offline business activities.

Schneider Electric has adopted an internal Global Data Privacy Policy which is applicable to all our subsidiaries for the collection, processing, use, dissemination, transfer and storage of personal information. It imposes common rules for all of our subsidiaries of all countries and aims at ensuring a high level of protection of personal information within Schneider Electric.

Schneider Electric has also established this Privacy Policy as an external publication of our Binding Corporate Rules ("BCR"), approved by data protection supervisory authorities of the European Union in November 2012 for the processing of personal information from the EEA as a data controller. In the Schneider Electric's Binding Corporate Rules, we respect and take into account the major principles of EU data protection rules as one of our Head Offices is located in the European Union.

## 3. What is the scope of this Privacy Policy?

**This Privacy Policy applies to all Schneider Electric subsidiaries and digital content, unless a specific privacy notice has been released to supplement it or to replace it. You should check the privacy notices made available to you on each digital platform such as websites or applications.**

This Privacy Policy describes how Schneider Electric processes and protects personal information of consumers and professionals with whom we do business online and offline, such as the individuals who use our websites and other digital platforms as well as in the context of our consumer products

If you have applied for employment with Schneider Electric, the personal information submitted with your job application will be used for recruitment and other customary human resources

purposes as specified in the applicable privacy statement provided in our Career Center.

Schneider Electric is a global company, with legal entities, business processes, management organizations, and system infrastructure that cross borders. This Privacy Policy applies to all Schneider Electric data processing activities run by our controlled subsidiaries, including product and service offerings and digital content (e.g. event registrations, websites, applications, tutorials, e-trainings, newsletters, advertising, and other communication). It may however be supplemented by a more specific privacy notice/statement/policy or even superseded by another policy, specific to a particular Schneider Electric program, product, service, content or entity. It is important that you read the statements made available to you for your full information. For instance, the processing of job candidate applications is governed by the privacy notice posted on our Career Portal.

The data controllers of the data processing activities are the Schneider Electric subsidiaries who have determined the data processing means and purposes. They may vary on a case-by-case basis. For information you can contact us at Global-Data-PrivacyATschneider-electric.com [Replace in the address AT by @]

This Privacy Policy binds all Schneider Electric controlled subsidiaries, and their employees.

Any order made by you online is also subject to the terms and conditions provided on the relevant sites. You must read them.

## 4. Why do we collect and use personal information?

**We use personal information for various purposes, including to fulfill orders and requests, to manage customer and prospect relationships, conduct surveys, improve our products, services, digital content, our websites and mobile applications as well as user journeys, manage user accounts**

**and programs, analyze activities on our digital platforms, run marketing activities such as online targeting and advertising, provide user with contextual and relevant information, ensure the security of our activities, finance and quality control, trainings, reportings and analytics, protect against fraud, and, more generally, run our business activities.**

Our primary goal in collecting information is to provide you with superior service and a smooth, efficient and personalized experience while using our digital content.

You can find more information in section 7.

## 5. What type of personal information do we process?

**Schneider Electric processes various types of personal information including identity and contact related information, professional related information, information about preferences, interactions with us, financial related information, online traffic data and the content you provide to us. In most instances this information is obtained from customers, partners and users. We also purchase lists from marketing agencies and obtain information from our partners, through Cookies and social networks.**

Personal information (also called personal data) is any information relating to an identified or identifiable individual. An identifiable individual is one who can be identified, directly or indirectly, in particular by reference to an identifier or to one or more factors specific to his physical, physiological, mental, economic, cultural or social identity.

This Privacy Policy does not cover personal information rendered anonymous, that is if individuals are no longer identifiable or are identifiable only with a disproportionately large expense in time, cost, or labor. If anonymized data becomes identifiable, then this

Privacy Policy shall apply.

In most instances we collect personal information directly from users who have a business relationship with us. We may also obtain information through a reseller or a business partner, by purchasing customer lists from marketing agencies, from your online browsing experience, from social networks when you connect with these network's credentials and through Cookies.

You can find more information in section 7.

## 6. Why do we disclose personal information to others?

**We disclose personal information to other Schneider Electric subsidiaries and to our suppliers, advertising and marketing agencies, with social networks if you use their login credentials, with other companies if you register with Schneider Electric credentials, competent regulatory bodies and authorities and business successors.**

Schneider Electric is a global group of companies which works as one. To provide the best service to customers, prospects and users, personal data may be accessed by personnel working for different entities. It may be the case, for example, for customer relationship management, sales or product support, marketing, product development purposes, improvement of the products, services and digital content, data quality checks, or security, finance, regulatory and compliance purposes.

We resort to supplier to carry out data processing activities and to provide our products, services and online content to you. These suppliers include, without limitation, providers of hosting facilities, information systems, advertising and marketing agencies, IT support, security services, financial services, carriers who deliver products, outside accounting firms, lawyers and auditors.

We ensure all suppliers working under contract for Schneider

Electric are compliant with data privacy laws and aligned with Schneider Electric guidelines.

We also disclose personal information as follows:

- In connection with the provisions of our products and services, we may disclose personal information to (and receive personal information from) those partners that provide product or service functionality.  For example, we may partner with companies to integrate smart home functionality into our smart home hardware products. These disclosures are necessary for you to utilize the products and features.
- In connection with the provision of advertising, we may share some limited personal information (e.g. device identifiers, Cookie identifiers) with ad exchanges or agencies that manage advertising on third-party websites and apps on which you may see advertising. You can restrict this sharing by exercising Your Privacy Choices .
- You may access our digital content and/or register through login credentials of third-party websites (such as Facebook and LinkedIn). If you do so, we will be able to access some of the information you registered on these social networks, to assist you to pre-fill the registration form for Schneider Electric digital content. By using the login credentials of these third-party websites, you may at the same time inform your contacts on these sites that you have created an account with Schneider Electric. If you want to know more about the information accessible by your contacts on these sites and how to restrict their communication, we encourage you to read their terms of use and privacy policies.
- Schneider Electric may disclose your personal information as necessary to potential buyers and successors in title, to facilitate a merger, consolidation, transfer of control or other corporate reorganization in which Schneider Electric participates.
- In other ways described in this Privacy Policy or to which you have otherwise consented.
- Aggregated with other information, in such a way that your identity cannot reasonably be determined (for example, statistical compilations).

You can find more information in section 7.

We will not sell or rent your personal information for monetary consideration to a third party without your permission.

## 7. Categories of personal information, purposes and disclosures

| Category of Personal Information, Representative Data Elements and Sources | Purpose for Collecting and Sharing the PI | Categories of Entities to whom this type of Personal Information is Disclosed for a Business Purpose |
|---|---|---|
| Contact Information<br><br>• Name<br>• Username<br>• Mailing address<br>• Email address<br>• Telephone number<br>• Mobile number<br><br>We collect this type of information from:<br><br>• You<br>• Third parties, such as companies that help us maintain the accuracy of our data and data aggregators that help us complete and enhance our records<br><br>We may obtain business contact information from | We use this type of information to identify you and communicate with you, including:<br><br>• To send transactional/operational messages (such as confirmations, or delay in deliveries)<br>• To register and manage your account<br>• To send marketing communications, surveys (satisfactory and marketing), and invitations to our digital/physical events<br>• To support corporate transactions or reorganizations<br>• To personalize our communications and | We may disclose this type of information to our Subsidiaries and to Service Providers, including to social media companies that use the data only to identify which of our customers use their platforms so that we can deliver ads to you on the platform.<br><br>• Companies that deliver our communications, such as the postal service and couriers<br>• Companies that assist us with address hygiene and fulfillment<br>• Other entities as required by law |

| Category of Personal Information, Representative Data Elements and Sources | Purpose for Collecting and Sharing the PI | Categories of Entities to whom this type of Personal Information is Disclosed for a Business Purpose |
|---|---|---|
| data aggregators and other entities services, such as LinkedIn, event and trade shows, and our commercial customers. | provide customer service<br>• For our Everyday Business Purposes | |
| Relationship information<br>We collect personal information about business professionals associated with our commercial customers, suppliers and partners in the context of our relationships we have with these companies. This includes:<br>• Information about your authority to use our products and place orders with us<br>• Professional interests and credentials<br>• Relationship information, including marketing and communication preferences<br>• Business interests and preferences (product, contact, marketing)<br>• Opportunity information (description, category, stage…)<br>• Visitor logs<br>• Loyalty and rewards program data<br>• Household demographic data, including census data | We use this type of information:<br>• To fulfill our business relationship with you and/or our client<br>• To develop and maintain our relationship with you and our client, including sending your marketing communications as permitted by law and subject to your preferences<br>• To better understand you and to understand our customers generally<br>• For product and service development and improvement<br>• To identify prospective customers<br>• For internal business purposes, such as finance, quality control, training, reporting and analytics<br>• For risk management, fraud prevention and similar purposes<br>• For recordkeeping and compliance, | We may disclose this type of information to our Subsidiaries and Service Providers and to:<br>• Companies with whom we have joint marketing and similar arrangements<br>• Companies as needed to complete the transaction, including delivery companies, agents and manufacturers<br>• Our lawyers, auditors and consultants<br>• Customers, in connection with their audits of Schneider Electric<br>• Other entities as required by law |

| Category of Personal Information, Representative Data Elements and Sources | Purpose for Collecting and Sharing the PI | Categories of Entities to whom this type of Personal Information is Disclosed for a Business Purpose |
|---|---|---|
| • Data from social media profiles<br><br>We collect this type of information from you and from your company. We may receive your data from other entities, such as trade associations or trade shows. | including dispute resolution | |
| Transaction and Interaction Information<br><br>• Account information and related records, including purchase history, payment information and history<br>• Records related to use of our websites and apps<br>• Records related to use of our products and devices Authentication data (passwords, account security questions)<br>• Customer service records<br>• Visitor logs<br><br>We collect this type of information from:<br><br>• You or your company<br>• Third parties that process transactions for us, such as resellers and sales agents | We use this type of information:<br><br>• To fulfill our business relationship with you, including customer service<br>• For recordkeeping and compliance, including dispute resolution<br>• For internal business purposes, such as finance, quality control, training, reporting and analytics<br>• For risk management, fraud prevention and similar purposes<br>• For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and Service Providers and to:<br><br>• Companies with whom we have joint marketing and similar arrangements<br>• Companies as needed to complete the transaction, including delivery companies, agents and manufacturers<br>• Our lawyers, auditors and consultants<br>• Customers, in connection with their audits of Schneider Electric<br>• Other entities as required by law |

| Category of Personal Information, Representative Data Elements and Sources | Purpose for Collecting and Sharing the PI | Categories of Entities to whom this type of Personal Information is Disclosed for a Business Purpose |
|---|---|---|
| • Automatically, such as from connected devices | | |
| Inferred and Derived Information<br>• Propensities, attributes and/or scores generated by internal analytics programs<br><br>We create inferred and derived data elements by analyzing our relationship and transactional information. | We combine inferred data with other relationship information and use this type of information:<br>• To better understand you and to understand our customers generally<br>• For product and service development and improvement<br>• For internal business purposes, such as quality control, training and analytics<br>• For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and Service Providers and to:<br>• Companies with whom we have joint marketing arrangements<br>• Our lawyers, auditors and consultants<br>• Other third parties as required by law |
| Online & Technical Information<br>• IP Address<br>• Device identifiers and characteristics<br>• Advertising ID<br>• Web Server Logs<br>• First Party Cookies<br>• Third Party Cookies<br>• Web beacons, clear gifs, pixel tags<br>• Server log records<br>• Activity log records<br>• We collect this type of information from:<br>• You and from your computer or devices when you interact | We use this type of information:<br>• For system administration, technology management, including optimizing our websites and applications,<br>• For information security and cybersecurity purposes, including detecting threats<br>• For recordkeeping, including logs and records that maintained as part | We may disclose this type of information to our Subsidiaries and Service Providers including to companies such as Google that use the data collected by cookies and similar means to help us with our online advertising programs, and to:<br>• Companies that assist with our information technology and security programs, including companies such as network |

| Category of Personal Information, Representative Data Elements and Sources | Purpose for Collecting and Sharing the PI | Categories of Entities to whom this type of Personal Information is Disclosed for a Business Purpose |
|---|---|---|
| with our platforms, websites and applications. For example, when you visit our websites, our server logs record your IP address and other information.<br>• Automatically, via technologies such as cookies, web beacons, when you visit our website or other websites.<br>• Third parties, including computer security services and advertising partners<br><br>We also associate information with you using unique identifiers collected from your devices or browsers. | of Transaction Information<br>• To better understand our customers and prospective customers and to enhance our Relationship Information, including by associating you with different devices and browsers that they may use<br>• For online targeting and advertising purposes<br>• For our Everyday Business Purposes | security services who retain information on malware threats detected<br>• Companies that assist with fraud prevention, detection and mitigation<br>• Third party network advertising partners<br>• Our lawyers, auditors and consultant<br>• Other entities as required by law<br><br>We also disclose this information with third parties if we have your consent to place third party advertising cookies. To learn more and review your cookie settings, please read our Cookie Notice. |
| IoT and Sensor data<br><br>• Commands, usage and other data collected, computed or produced by smart home and connected products (such as home automation, energy management, safety and security, and electrical products) and their associated apps<br>• Diagnostics data (such as context and description of | We use this type of information:<br><br>• To provide the services<br>• To improve and modify product, and create any new products, services and solutions,<br>• To generate business and/or sales with you<br>• To allow compliance and/or enforcement of legal requirements.<br>• To enable product | We may disclose this type of information to our Subsidiaries and Service Providers, to:<br><br>• Companies that assist with our information technology and security programs, including network security services and cybersecurity consortia<br>• Companies that assist with fraud prevention, detection and mitigation |

| Category of Personal Information, Representative Data Elements and Sources | Purpose for Collecting and Sharing the PI | Categories of Entities to whom this type of Personal Information is Disclosed for a Business Purpose |
|---|---|---|
| detected errors) Geolocation data<br>• We collect this type of information automatically from your connected devices. | functionality<br>• For internal business purposes, such product development, security, and quality control<br>• For relationship purposes, including analytics regarding product usage<br>• For our Everyday Business Purposes | • Other companies, such as technology partners, as needed to complete the transactions including entities that provide products and services that you connect with ours<br>• Our lawyers, auditors and consultants<br>• Other entities as required by law |
| Audio Visual Information<br>We collect this type of information from:<br>• Photographs • Video images • CCTV recordings • Call center recordings and call monitoring records Voicemails<br>• We collect this type of information from:<br>• You<br>• Automatically, such as when we record calls to our call center and use CCTV cameras in our facilities.<br>• Third parties that provide access to photos and videos you make publicly available, such as on social media | We use this type of information:<br>• For internal business purposes, such as call recordings used for training, coaching or quality control<br>• For relationship purposes, such as use of photos and videos for social media purposes<br>• For premises security purposes and loss prevention<br>• For our Everyday Business Purposes | We may disclose this type of information to our Subsidiaries and Service Providers and to:<br>• Companies that assist with our information technology and security programs, and our loss prevention programs<br>• Our lawyers, auditors and consultants<br>• Other entities as required by law |
| Compliance data<br>We collect this type of | We use this type of information: | We may disclose this type of information to our |

| Category of Personal Information, Representative Data Elements and Sources | Purpose for Collecting and Sharing the PI | Categories of Entities to whom this type of Personal Information is Disclosed for a Business Purpose |
|---|---|---|
| information from:<br><br>• Compliance program data, such as records maintained to demonstrate compliance with applicable laws<br>• Product safety data and other regulatory information<br>• Records related to consumer preferences, such as your opt-ins and opt-outs of marketing programs<br>• Records related to CCPA rights requests<br><br>We collect this type of information from:<br><br>• You<br>• Third parties, including companies that help us conduct internal investigations<br>• Third parties, such as consumer reporting agencies and data aggregators who conduct background screening for us | • To comply with and demonstrate compliance with applicable laws<br>• For legal matters, including litigation and regulatory matters, including for use in connection with civil, criminal, administrative, or arbitral proceedings, or before regulatory or self-regulatory bodies, including service of process, investigations in anticipation of litigation, execution or enforcement of judgments and orders<br>• For internal business purposes, such as risk management, audit, internal investigations, reporting, and analytics<br>• For our Everyday Business Purposes | Subsidiaries and Service Providers and to:<br><br>• Our lawyers, auditors and consultants.<br>• Regulators, customers and other third parties, in connection with their audits of Schneider Electric<br>• Other entities (including government agencies, courts and opposing law firms, consultants, process servers and parties to litigation) in connection with legal matters |

## 8. Your content

**You may choose to contribute content, including photos or comments, to online forums, applications or other digital platforms operated by Schneider Electric. Your content must be harmless. It must respect the law, the rights and interests of others. You need to have obtained consent before sharing someone else's data. You should apply caution before sharing information in a forum.**

The content provided to us must respect the rights and interests of others, including their rights to protection of personal information and privacy. It should not be offensive, disrespectful or be harmful in any way.

Any provision of personal information to Schneider Electric about another individual must be compliant with privacy laws, including with notice and consent requirements for the disclosure of that information.

While Schneider Electric strives to protect your personal information, providing it online on shared forums is not risk-free. If you post, comment, indicate interest, or share personal information, including photographs, to any forum, social network or blog, please be aware that any personal information you submit can be read, viewed, collected, or used by other users of these forums, and could be used to contact you, send you unsolicited messages, or for purposes that neither you nor Schneider Electric have control over. Schneider Electric is not responsible for the personal information you choose to submit in these forums. You should apply caution before deciding to share information about yourself or another person.

## 9. How do we protect personal information?

**Schneider Electric complies with widely recognized key data protection principles (fairness, purpose limitation, data quality, data retention, compliance with individuals' rights, security) and takes reasonable measures for the security of**

**personal information.**

Schneider Electric respects the privacy rights and interests of individuals. Schneider Electric and its subsidiaries observe the following principles when processing personal information:

1. Processing personal information fairly and lawfully;
2. Collecting personal information for specified, legitimate purposes and not processing it further in ways incompatible with those purposes;
3. Collecting personal information which is relevant to and not excessive for the purposes for which it is collected and used. We may render information anonymous when feasible and appropriate, depending on the nature of the data and the risks associated with the intended uses;
4. Maintaining accurate personal information, and where necessary, kept up-to-date. We will take reasonable steps to rectify or delete information that is inaccurate or incomplete;
5. Keeping personal information only as long as it is necessary for the purposes for which it was collected and processed;
6. Processing personal information in accordance with individuals' legal rights;
7. Taking appropriate technical, physical, and organizational measures to prevent unauthorized access, unlawful processing, and unauthorized or accidental loss, destruction, or damage to personal information;
8. When processing sensitive personal information, ensuring appropriate notice and consent or that the processing otherwise complies with applicable law;

Schneider Electric and all its subsidiaries must ensure that the above principles are complied with.

Schneider Electric and its subsidiaries are committed to taking commercially reasonable technical, physical, and organizational measures to protect personal information against unauthorized access, unlawful processing, accidental loss or damage, and unauthorized destruction. We offer the use of secure servers to enable you to place orders or to access your account information. We implement access control measures for our internal systems that hold personal information. Authorized users are given access

to such systems through the use of a unique identifier and password. Access to personal information is provided to our staff for the sole purpose of performing their job duties. We sensitize our employees on proper use and handling of personal information. We also require our service providers to maintain compliant security measures. We implement security measures to determine the identity of registered users, so that appropriate rights and restrictions can be enforced for these users. In case of a registered user, we use both log ins and passwords for authentication. You are responsible for maintaining the security of your log-in credentials.

Schneider Electric will retain your personal information for as long as the information is needed for the purposes for which it was collected and for any additional period that may be required or permitted by law, such as for business, legal, accounting, or reporting requirements. The length of time your personal information is retained depends on the purpose(s) for which it was collected, how it is used, and the requirements to comply with applicable laws, regulations or contracts.

More precise information is provided in privacy notices applicable to specific digital content. In general data retention periods are determined taking into consideration:

- The duration of our relationship (e.g., contract performance duration, account de-activation, your legitimate need to be recognized when contacted by us)
- Legal requirements for keeping data
- Statute of limitations

For marketing purposes, we keep relevant customer data for three years after the end of our relationship or since the last interaction with us.

By using our digital content or providing personal information to us, you agree that we may communicate with you electronically or otherwise about related security, privacy, use and administrative activities.
In spite of our efforts to implement appropriate security measures, online browsing carries inherent risks and we cannot guarantee that it is risk-free.

## 10. Third-party websites and social media

**You should read the privacy policy of third-party websites and social media and adjust privacy settings as you see fit. Non-Schneider Electric websites and platforms are not covered by this Privacy Policy.**

Schneider Electric digital platforms may provide links to third-party applications, products, services, or websites for the user convenience and information. If you access those links, you will leave the Schneider Electric digital platform. Schneider Electric does not control those third-party sites or their privacy practices, which may differ from Schneider Electric's practices. We do not endorse or make any representations about third-party sites. The personal information you choose to provide or that is collected by, these third parties are not covered by the Schneider Electric Privacy Policy. We encourage you to review the privacy policy of any site you interact with, before allowing the collection and use of your personal information.

We also provide social media links that enable you to share information with your social networks and to interact with Schneider Electric on various social media sites. The use of these links may result in the collection or sharing of information about you. We encourage you to review the privacy policies and the privacy settings of the social media sites with which you interact to make sure you understand the information that may be collected, used, and shared by those sites and to adjust these settings as you see fit.

## 11. Your Privacy Choices

**Schneider Electric will comply with your data protection rights as applicable, including your rights to request access**

**to your personal information and to request that it be deleted or amended. You can always opt out of any direct marketing activity performed by Schneider Electric.**

This section tells you how to exercise your data protection rights, as applicable under relevant data protection laws, with respect to the personal information that we collect for our own business purposes. If we are processing your information as a service provider for another company, you will need to contact that company to exercise your rights:

- **Access requests**. You have the right to request a copy of the personal information that Schneider Electric maintains about you. To exercise this right, please click here for our privacy request portal,
- **Correction requests**. You have the right to request that we update or correct your personal information. To exercise this right, please click here for our privacy request portal and provide information about the correction that you wish us to make. We will process your request as required by law.
- **Deletion requests**. You have the right to request that we delete or anonymize your personal information. To exercise this right, please click here for our privacy request portal . We will process your request as required by law. Please understand that Schneider Electric cannot delete personal information in those situations where our retention is required for our Schneider Electric's internal business purposes or otherwise permitted by law (such as for fraud prevention or legal compliance).
- **Inquiries and complaints**. You have the right to ask us about our privacy practices or to lodge a complaint if you believe that we have violated your privacy rights or failed to properly secure your personal information. To exercise these rights, please email your specific question or concern to DPO@schneider-electric.com.
- **Right to Opt-Out**. Subject to applicable laws, you have the right to opt out of certain types of processing, including:
    - to opt-out of the "sale" (as such term is defined under applicable law) of your personal information. However,

Schneider Electric does not sell your personal information for monetary consideration.

- to opt-out of online targeted advertising and the "sharing" of personal information for cross-contextual behavioral targeting: You can exercise this right by adjusting your browser settings (see our section How to control Cookies in Schneider Electric Cookie Notice) and setting your cookie preferences here.
- to opt-out of any processing of personal information for purposes of making decisions that produce legal or similarly significant effects. However, Schneider Electric does not use any profiling or automated decision-making tools that significantly affect individuals. You would be given notice of any such activity.
- to opt-out of emails, click the link labeled "unsubscribe" at the bottom of any email we send you or to revoke permissions that you may have given to send text messages, text STOP in response to any message.

If you have more than one email address or if you have changed your email address, please email Global-Data-Privacy@schneider-electric.com for assistance with changing your marketing preferences. Also, please note that even if you opt-out of commercial emails, we may still need to contact you with important transactional/operational information in relation to our relationship.

- **Limit the use of your sensitive personal information**: California residents have the right to limit secondary uses and disclosures of sensitive personal information. In general, Schneider Electric only uses and discloses sensitive personal information as needed to fulfill the purpose for which it was collected. However, if you have provided sensitive personal information to us, you may ask us to delete it using the process above.

In some cases, we may need to contact you to verify your identity and to obtain documentation to support your request.

Our websites also recognize Global Privacy Control signals if you are based in California or Virginia and will respect your opt-out request if it provided by your browser

**California residents: please read the Important Information for California Residents for specific information about your California Privacy Rights and for alternative methods for submitting California Privacy Rights requests.**

Country-specific sections may supplement this section.

## 12. Important information for California residents

Schneider Electric in the USA is providing this supplemental privacy notice to give California residents the additional information required by the California Consumer Privacy Act (the "CCPA").

Schneider Electric is primarily focused on serving business and professional customers, however do collect consumer data from individuals who provide it to us via our online forms or by otherwise interacting with our websites or apps.  We also receive consumer data in connection with our smart home products.  This supplemental privacy notice explains how we comply with the CCPA for consumer and business professional information.

### 12.1 CCPA Rights

The CPRA provides California residents with specific privacy rights:

- The right to know what personal information and sensitive personal information we collect
- The right to access your personal information
- The right to correct inaccurate personal information
- The right to request that we delete your personal information
- The right to know what categories of personal information are sold to third parties and to opt-out of that sale

- The right to know what categories of personal information are shared with third parties for cross-contextual behavioral targeting and to opt-out that sharing
- The right to limit the use and disclosure of sensitive personal information, and
- The right not to be retaliated against for exercising your privacy rights

### 12.2 How to Exercise Your Privacy Choices?

If you are a California resident, you may exercise your rights or authorize another person to act on your behalf by:

- Clicking here: Your Privacy Choices
- Calling Schneider Electric at 800-789-3508
- Emailing us: Global-Data-Privacy@schneider-electric.com

Please note that we will need to verify your identity before we can fulfill your request. Because the information that we maintain subject to CCPA generally consists of marketing information, we will generally verify your identity using your email address. We will respond to requests using the email address that is associated with the information we maintain.

If you are exercising CPRA access or deletion rights on behalf of another person, please understand that what will need to verify your authority with the person you seek to represent.

If you would like to designate an agent, please send an email from your own email address to Global-Data-Privacy@schneider-electric.com indicating the name and email address of your agent. We will respond to that person's requests using both your email address and the agent's email address.

Please understand that your rights are subject to some limitations. If you request that we delete your personal information, we will do so except in those situations where our retention is required for our internal business purposes, to finalize the ongoing business operations we have we you, to log your request or otherwise

permitted by CCPA (such as for fraud prevention or legal compliance). In these situations, we will retain your information in accordance with our records retention program and securely delete it at the end of the retention period.

Additionally, please note that many companies sell and install Schneider Electric products.  We do not operate these companies, and we do not have any access to their databases.  If you have registered with or purchased Schneider Electric products from another company, please contact that company directly to exercise your CCPA rights.

## 12.3 Financial Incentives

Schneider Electric collects personal information in order to deliver offers and promotions and to enable loyalty programs. While we cannot calculate the precise value of your information to us, our offers and incentives generally reflect the value of the relationships that we have with the individuals who participate in the program.

We will not discriminate against you if you exercise your rights under CCPA. However, if you ask us to delete your information, you will not be able to receive additional offers or promotions. Any offers or promotions sent to you previously will continue to be honored according to their original terms.

## 12.4 Sensitive Personal Information

Schneider Electric uses and discloses the following categories sensitive personal information.  We do not process any sensitive personal information for the purpose of informing characteristics about you.

| Category of Sensitive Personal Information | Purposes for Use and Disclosure | Can I limit this Use and Disclosure? |
|---|---|---|
| Government-issued Identification Numbers | We use and disclose Government-issued Identification Numbers in connection with payments made to professionals, for tax reporting and compliance. | No |
| Account log-in credentials | We use and disclose Account Access Information as needed to allow you to access your account, for account security purposes. | No |
| Financial account or payment card numbers | We use and disclose financial account and payment card numbers as needed to process transactions | No |
| Precise Geolocation Data | We may collect precise geolocation data in order to provide specific functionality related to the services. We also use it to deliver content to you based on your location. | Yes |
| Race or Ethnicity<br>Disability Status<br>Sexual Orientation | If you provide this information to us, we use and disclose these data elements in connection with our supplier diversity programs. | No |

We do not collect other categories of sensitive personal information, such as biometric identifiers, the contents of mail, email or texts, or other non -public information about your race, ethnicity, health, sex life or sexual orientation.

1. *Personal information of children under 16 cannot be sold or shared without affirmative consent.*
2. *Schneider Electric's Subsidiaries are companies that are directly or indirectly controlled by Schneider Electric SE.*
3. ***Everyday Business Purposes** encompasses the Business Purposes (as defined in the CCPA) and following related purposes for which personal information may used:*
    - *To provide the information, product or service requested by the individual or as reasonably expected given the context in which with the personal information was*

*collected (such as customer credentialing, providing customer service, personalization and preference management, providing product updates, bug fixes or recalls, and dispute resolution);*

- *For identity and credential management, including identity verification and authentication, and system and technology administration;*
- *To protect the security and integrity of systems, networks, applications and data, including detecting, analyzing and resolving security threats, and collaborating with cybersecurity centers, consortia and law enforcement about imminent threats;*
- *For fraud detection and prevention;*
- *For legal and regulatory compliance, including all uses and disclosures of personal information that are required by law or reasonably needed for compliance with company policies and procedures, such as: anti-money laundering programs, security and incident response programs, intellectual property protection programs, and corporate ethics and compliance hotlines;*
- *For corporate audit, analysis and reporting;*
- *To enforce our contracts and to protect against injury, theft, legal liability, fraud or abuse, and to protect people or property, including physical security programs;*
- *To de-identify the data or create aggregated datasets, such as for consolidating reporting, research or analytics;*
- *To make back-up copies for business continuity and disaster recovery purposes; and*
- *For corporate governance, including mergers, acquisitions and divestitures.*

- Technical Expert Assessment (TEX) Request Form
- Rev. 01-00
- Internal
- Date:
- Case started already? If yes, please provide: Case #:
- Material Returned already? If yes, please provide: CNI/RMA #: Shipping Carrier & Tracking #:
- Material Exchanged already? If yes, please indicate at the bottom if we should return the material after analysis if credit is denied.
- 
- Preferred Method of Contact:
- Email
- Phone
- Preferred Frequency:
- Daily
- Weekly

- Bi-Weekly
- Milestones
- Only if Delay
- Check the box next to who is to be the primary contact for communication.
-
-
- Company Name:
- Address:
- City:
- State:
- Zip:
- Customer Contact:
- Phone #:
- Email Address:
- Company Name:
- Address:
- City:
- State:
- Zip:
- Account #:
- Distributor/ OEM Contact:
- Phone #:
- Email Address:
-
-
-
- Company Name:
- Address:
- City: State: Zip:
- Technical Contact:
- Phone #:
- Email Address:
- Name: Field Sales Rep?
- Location:
- Phone #:
- Email Address:
-
-
-
- Q2C # / SO #:
- Quantity:
- PO #:
- Check box if material is in warranty
- Catalog/Part #:
- Series #:
- Return item if credit is denied?
- Serial # / Date Code:
- Yes
- No
- End User
- Distributor/ OEM
- Other
- Technical Contact Email:
- SE Contact
- Our Technical Support Team will contact the “Technical Contact” listed above to obtain detailed information regarding the inoperative
- product. Please provide a brief description below so that we understand the nature of your request.
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Documentation

# Technical documentation

Search for in-depth articles on Microsoft developer tools and technologies.

Index

## Product directory

Explore guides and articles by product.

- .NET
- .NET MAUI
- Adaptive Cards
- ASP.NET Core
- Azure
- Biztalk Server
- C++
- C#
- DAX
- Dynamics 365
- Dynamics 365 Business Central
- Dynamics 365 Commerce
- Dynamics 365 Customer Insights
- Dynamics 365 Customer Service
- Dynamics 365 Field Service
- Dynamics 365 Finance
- Dynamics 365 Guides
- Dynamics 365 Human Resources
- Dynamics 365 Project Operations
- Dynamics 365 Remote Assist
- Dynamics 365 Sales
- Dynamics 365 Supply Chain Management
- Java
- Microsoft 365
- Microsoft Advertising
- Microsoft Cloud
- Microsoft Compliance

- Microsoft Copilot
- Microsoft Copilot Studio
- Microsoft Defender
- Microsoft Edge
- Microsoft Entra
- Microsoft Fabric
- Microsoft Graph
- Microsoft Industry Clouds
- Microsoft Intune
- Microsoft Lifecycle Policy
- Microsoft Mesh
- Microsoft Priva
- Microsoft Purview
- Microsoft Security
- Microsoft Stream
- Microsoft Surface
- Microsoft Teams
- Microsoft Typography
- Microsoft Viva
- OData
- Open Specifications
- OpenAPI
- Partner Center
- PlayReady
- Power Apps
- Power Automate
- Power BI
- Power Pages
- Power Platform
- Power Query M
- PowerShell
- Semantic Kernel
- SharePoint
- SQL Server
- System Center
- Sysinternals
- Vcpkg
- Visual Studio
- Windows
- Windows Server

## Recommended Resources

- **Startups**

Get your businesses up and running with the Microsoft Cloud, growing your startup while ensuring security and compliance for your customers.

- **Student Hub**

  Learn technical skills to prepare you for your future. Find training, virtual events, and opportunities to connect with the Microsoft student developer community.

- **Educator Center**

  Dive deep into learning with interactive lessons, earn professional development hours, acquire certifications and find programs that help meet your goals.

- **Microsoft Learn Blog**

  Get the latest updates, articles, and news for learning content and events from the Microsoft Learn community.

- **Virtual Training Days**

  Take advantage of free Virtual Training Days, where participants of any skill level can build technical skills across a range of topics and technologies.

- **Microsoft R**

Skip to main content

Learn

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Success! Your plan has been saved to your profile.

Plan

# Discover Data Concepts and Implement Solutions with Microsoft Fabric

3 milestones

This plan covers data discovery, classification, and protection, alongside implementing data warehouses using Microsoft Fabric. You'll learn key technologies like Azure and Microsoft Fabric, and tasks such as data management and analytics.

- Edited on 8/18/2025
- Created by tshingombe tshitadi with AI on Microsoft Learn

Learning outcomes

- By the end of this plan, you'll be able to identify and apply core data concepts and roles in data management.
- By the end of this plan, you'll be able to implement a data warehouse using Microsoft Fabric, including loading and querying data.
- By the end of this plan, you'll be able to utilize Microsoft Purview for data discovery and protection.

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### Skills earned upon completion

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## 3 milestones in this plan

Milestone 1

Progress:

0%

## Understand data concepts and core data principles

Learn fundamental data concepts, analytics, and roles using Microsoft Azure and SQL Server. This section covers data discovery, classification, and protection, essential for effective data management.

Days to milestone: 1

- Learning Path

  Understand data concepts

  - 3 modules
  - 1 hr 34 min

-
-

 Learning Path

Introduction to Microsoft Azure Data core data concepts

- 2 modules
- 59 min

-
-

-

Milestone 2

Progress:

0%

## Implement data warehousing solutions with Microsoft Fabric

Explore the data warehousing process using Microsoft Fabric. Learn to load, monitor, secure, and query data warehouses, enhancing your data management skills.

Days to milestone: 3

- Learning Path

Implement a data warehouse with Microsoft Fabric

- 6 modules
- 5 hr 57 min

Implement a data warehouse with Mi...

- 

 Learning Path

Get started with Microsoft Fabric

- 10 modules
- 10 hr 31 min

- 

- 

Milestone 3

Progress:

0%

## Support data protection and cybersecurity solutions

Understand how Microsoft supports data discovery, classification, and protection in cybersecurity. This section focuses on essential data protection capabilities within M365 and Azure.

Days to milestone: 1

- Learning Path

  Learn how Microsoft supports data discovery, classification, and protection as part of a cybersecurity solution

  - 2 modules
  - 1 hr 50 min

- 

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- AI Disclaimer
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- Blog
- Contribute
- Privacy
- Terms of Use
- Trademarks
- © Microsoft 2025



Skip to main content

Learn


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Plan

# Discover Data Concepts and Implement Solutions with Microsoft Fabric (2)

3 milestones

This plan covers data discovery, classification, and protection, alongside implementing data warehouses using Microsoft Fabric. You'll learn key technologies like Azure and Microsoft Fabric, and tasks such as data management and analytics.RESEARCH BACKGROUND & CAREER PORTFOLIO Title: Digital Automation and Engineering Documentation Using VBA Macros and Form Controls Author: Tshingombe Tshitadi Fiston Institution: St Peace College / City Power / DBE / DHET Field: Engineering Education, Digital Systems, Technical Training Portfolio Theme: Integra

- Edited on 8/18/2025
- Created by tshingombe tshitadi

Learning outcomes

- By the end of this plan, you'll be able to identify and apply core data concepts and roles in data management.APPLICATIONS & IMPACT  Institutional Use • DBE and DHET curriculum mapping • ISITA and Umalusi assessment

compliance • City Power and Eskom technical training modules • TVET college portfolio standardization  Career Development • Portfolio for job applications and internships • Evidence of technical and digital competency • Integration with GitHub for code versioning • Alignment with NATED and engineering qualifications Would you li

- By the end of this plan, you'll be able to design and implement a VBA macro-driven workbook that automates: • Student registration and assessment tracking • Engineering drawing analysis and documentation • PLC command simulation and device interfacing • Portfolio generation for career readiness 2 VBA MACRO & FORM CONTROL SYSTEM  Key Modules Macro Purpose reset_form() Clears form fields, initializes default values, saves workbook Macro2() Operates calculatimplement a data warehouse using Microsoft Fabric, including loading and querying data.
- By the end of this plan, you'll be able to utilize Microsoft Purview for data discovery and protectionVBA FORM CONTROL SYSTEM OVERVIEW Project Title: Multi-Form VBA Interface for Engineering Documentation and Student Record Automation Author: Tshingombe Tshitadi Fiston Platform: Microsoft Excel + VBA + MSForms Use Case: Engineering education, student records, PLC simulation, project documentation  SYSTEM ARCHITECTURE Your code spans multiple UserForms, Modules, and Event Handlers, each serving a specific function:  UserForms Breakdown For.

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### Skills earned upon completion

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# 3 milestones in this plan

Milestone 1

Progress:

0%

## Implement data warehousing solutions with Microsoft Fabric

Explore the data warehousing process using Microsoft Fabric. Learn to load, monitor, secure, and query data warehouses, enhancing your data management skills.

Days to milestone: 3

- Learning Path

  Implement a data warehouse with Microsoft Fabric

  - 6 modules
  - 5 hr 57 min

  Implement a data warehouse with Mi...

-
-

 Learning Path

Get started with Microsoft Fabric

- 10 modules
- 10 hr 31 min

-
-

-

Milestone 2

Progress:

0%

## Understand data concepts and core data principles

Learn fundamental data concepts, analytics, and roles using Microsoft Azure and SQL Server. This section covers data discovery, classification, and protection, essential for effective data management.

Days to milestone: 1

- Learning Path

Understand data concepts

- 3 modules
- 1 hr 34 min

- 

Learning Path

Introduction to Microsoft Azure Data core data concepts

- 2 modules
- 59 min

- 

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Milestone 3

Progress:

0%

## Support data protection and cybersecurity solutions

Understand how Microsoft supports data discovery, classification, and protection in cybersecurity. This section focuses on essential data protection capabilities within M365 and Azure.

Days to milestone: 1

- Learning Path

  Learn how Microsoft supports data discovery, classification, and protection as part of a cybersecurity solution

  - 2 modules
  - 1 hr 50 min

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- AI Disclaimer

- Previous Versions
- Blog
- Contribute
- Privacy
- Terms of Use
- Trademarks
- © Microsoft 2025



Skip to main content

Learn


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Plan

# Discover Data Concepts and Implement Solutions with Microsoft Fabric (3)

3 milestones

This plan covers data discovery, classification, and protection, alongside implementing data warehouses using Microsoft Fabric. You'll learn key technologies like Azure and Microsoft Fabric, and tasks such as data management and analytics.□ RESEARCH BACKGROUND & CAREER PORTFOLIO 2 1□ RESEARCH BACKGROUND 2 2□ VBA MACRO & FORM CONTROL SYSTEM 3 3□ CAREER PORTFOLIO COMPONENTS 3 4□ APPLICATIONS & IMPACT 3 □ APPLICATION CONTEXT 5 □ VBA FORM CONTROL SYSTEM OVERVIEW 6 □ SYSTEM ARCHITECTURE 6 □ EVENT HANDLER LOGIC 7 □ PORTFOLIO INTEGRATION 7

- Edited on 8/18/2025
- Created by tshingombe tshitadi

Learning outcomes

- By the end of this plan, you'll be able to identify and apply core data concepts and roles in data man□ RESEARCH BACKGROUND & CAREER PORTFOLIO 2 1□ RESEARCH BACKGROUND 2 2□ VBA MACRO & FORM CONTROL SYSTEM 3 3□

CAREER PORTFOLIO COMPONENTS 3 4 APPLICATIONS & IMPACT 3  APPLICATION CONTEXT 5  VBA FORM CONTROL SYSTEM OVERVIEW 6  SYSTEM ARCHITECTURE 6  EVENT HANDLER LOGIC 7  PORTFOLIO INTEGRATION 7  NEXT STEPS 8 ⚙ SYSTEM MODULE: VBA + ENGINEERING FAULT ANALYSIS 8  VBA UserForm3 Configuration 8 End Sub THREE-PHASE FAULT agement.

- By the end of this plan, you'll be able to implement a data warehouse using Microsoft Fabric, including loading and querying data. RESEARCH BACKGROUND & CAREER PORTFOLIO 2 1 RESEARCH BACKGROUND 2 2 VBA MACRO & FORM CONTROL SYSTEM 3 3 CAREER PORTFOLIO COMPONENTS 3 4 APPLICATIONS & IMPACT 3  APPLICATION CONTEXT 5  VBA FORM CONTROL SYSTEM OVERVIEW 6  SYSTEM ARCHITECTURE 6  EVENT HANDLER LOGIC 7  PORTFOLIO INTEGRATION 7  NEXT STEPS 8 ⚙ SYSTEM MODULE: VBA + ENGINEERING FAULT ANALYSIS 8  VBA UserForm3 Configuration 8 End Sub
- By the end of this plan, you'll be able to utilize Microsoft Purview for data discovery and protect AI/ML Deployment & Scaling in Software Engineering 48  Overview 49 Portfolio Evidence: 49  Cross-Domain Integration Strategy 49  Strategic Impact 49 ⚙ Specialist Engineering in Electrochemical Systems for Infrastructure 50  Core Modules & Strategic Themes 50  Energy Storage and Battery Technology 50  Core Modules & Strategic Themes 50  Advanced Robotic Process Automation in Electrical Engineering 51  Core Modules & Strategiion.

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### Skills earned upon completion

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# 3 milestones in this plan

Milestone 1

Progress:

0%

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 Learning Path

Introduction to Microsoft Azure Data core data concepts

- 2 modules
- 59 min

-
-

-

Milestone 2

Progress:

0%

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Days to milestone: 3

- Learning Path

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    - 6 modules
    - 5 hr 57 min

  Implement a data warehouse with Mi...

- 

 Learning Path

[Get started with Microsoft Fabric]

- 10 modules
- 10 hr 31 min

- 

- 

Milestone 3

Progress:

0%

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Understand how Microsoft supports data discovery, classification, and protection in cybersecurity. This section focuses on essential data protection capabilities within M365 and Azure.

Days to milestone: 1

- Learning Path

  [Learn how Microsoft supports data discovery, classification, and protection as part of a cybersecurity solution]

    - 2 modules
    - 1 hr 50 min

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- [AI Disclaimer]

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# Your invitation to start Discover Data Concepts and Implement Solutions with Microsoft Fabric (2) plan on Microsoft Learn

Inbox

t

**tshingombe fiston <tshingombefiston@gmail.com>**

12:55 PM (10 minutes ago)

to me, TSHINGOMBEKB, Microsoft, Microsoft, margeaux.groenewald, callcentre, careerhelp, call, carrercenter, Microsoft, RnDapplications, itsmpd, BSTD-ICT-ServiceDesk, Roberto, RegionB

Career11tf discovery job trade memo lecture learn note.docx

Start your plan and begin your learning journey today.

You have been invited to start the Discover Data Concepts and Implement Solutions with Microsoft Fabric (2) plan on Microsoft Learn.

A plan is a set of curated and organized content on Microsoft Learn with milestones designed to help you to achieve learning outcomes.

By completing this plan, you'll achieve the following learning outcomes:
- By the end of this plan, you'll be able to identify and apply core data concepts and roles in data management.APPLICATIONS & IMPACT

Institutional Use
• DBE and DHET curriculum mapping
• ISITA and Umalusi assessment compliance

• City Power and Eskom technical training modules
• TVET college portfolio standardization

Career Development
• Portfolio for job applications and internships
• Evidence of technical and digital competency
• Integration with GitHub for code versioning
• Alignment with NATED and engineering qualifications
Would you li
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• Engineering drawing analysis and documentation
• PLC command simulation and device interfacing
• Portfolio generation for career readiness

VBA MACRO & FORM CONTROL SYSTEM

Key Modules
Macro Purpose
reset_form() Clears form fields, initializes default values, saves workbook
Macro2() Operates calculatimplement a data warehouse using Microsoft Fabric, including loading and querying data.
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Project Title: Multi-Form VBA Interface for Engineering Documentation and Student Record Automation Author: Tshingombe Tshitadi Fiston Platform: Microsoft Excel + VBA + MSForms Use Case: Engineering education, student records, PLC simulation, project documentation

SYSTEM ARCHITECTURE
Your code spans multiple UserForms, Modules, and Event Handlers, each serving a specific function:

UserForms Breakdown
For.

Start your plan today!

https://learn.microsoft.com/en-us/plans/60ggu7tn0og30?learnerGroupId=07ae0c1d-9ee4-403f-a050-41692d890990#

Librarie Microsoft to libraie technical documentation

Success! Your new plan is ready. Please review as AI-generated content may be inaccurate.

# Review plan

Required fields are marked with an asterisk

Plan

# Develop AI Solutions with Azure

In this plan, you'll learn to implement AI solutions using Azure AI services, focusing on knowledge mining, information extraction, and developing AI agents. Key technologies include Azure AI Search and Azure AI Foundry.

Learning outcomes

- By the end of this plan, you'll be able to implement knowledge mining solutions using Azure AI Search to extract insights from data.
- By the end of this plan, you'll be able to develop AI information extraction solutions that automate data capture and enhance business processes.
- By the end of this plan, you'll be able to create and deploy AI agents using Azure AI Foundry to improve user interactions.

Estimated time to complete: 29 days

## 6 milestone(s) in this plan

Get started with Azure AI Services (1 item)

Learn the fundamentals of Azure AI Services, including key concepts and tools. This section covers getting started with AI services and foundational knowledge for further learning.

Days to milestone: 5

Get started with Azure AI Services - Training

Develop AI information extraction solutions (1 item)
Develop AI Agents on Azure (1 item)
Implement knowledge mining with Azure AI Search (1 item)
Develop generative AI apps in Azure (1 item)
Microsoft Certified: Azure AI Engineer Associate - Certifications (1 item)

Is this plan helpful?

Skip to main content

Learn

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Plan

# Develop AI Solutions with Azure engineering dATABASE

6 milestones

In this plan, you'll learn to implement AI solutions using Azure AI services, focusing on knowledge mining, information extraction, and developing AI agents. Key technologies include Azure AI Search and Azure AI Foundry.□ AI/ML Deployment & Scaling in Software Engineering 48 □ Overview 49 Portfolio Evidence: 49 □ Cross-Domain Integration Strategy 49 □ Strategic Impact 49 ⚙ Specialist Engineering in Electrochemical Systems for Infrastructure 50 □ Core Modules & Strategic Themes 50 □ Energy Storage and Battery Technology 50 □ Core Modules

- Edited on 8/18/2025
- Created by 46307064

Learning outcomes

- By the end of this plan, you'll be able to implement knowledge mining solutions using Azure AI Search to extract insights from data.□ AI/ML Deployment & Scaling in Software Engineering 48 □ Overview 49 Portfolio

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### Skills earned upon completion

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# 6 milestones in this plan

Milestone 1

Progress:

0%

## Get started with Azure AI Services

Learn the fundamentals of Azure AI Services, including key concepts and tools. This section covers getting started with AI services and foundational knowledge for further learning.

Days to milestone: 5

- Learning Path

  Develop generative AI apps in Azure

- 8 modules
- 7 hr 29 min

Develop generative AI apps in Azur...

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Milestone 2

Progress:

0%

## Implement knowledge mining with Azure AI Search

Master knowledge mining techniques using Azure Cognitive Search. This section dives into implementing search solutions that leverage AI for enhanced information retrieval.

Days to milestone: 6

- Learning Path

  Implement knowledge mining with Azure AI Search

  - 8 modules
  - 6 hr 24 min

- 

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Milestone 3

Progress:

0%

## Develop AI information extraction solutions

Explore how to extract information from various content types using Azure AI services. This section focuses on practical applications and techniques for information extraction.

Days to milestone: 4

- Learning Path

  Develop AI information extraction solutions in Azure

  - 5 modules
  - 4 hr 18 min

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Milestone 4

Progress:

0%

## Develop AI Agents on Azure

Learn to create AI agents using Azure AI Foundry and Semantic Kernel. This section covers agent development techniques and frameworks for building intelligent applications.

Days to milestone: 6

- Learning Path

  Develop AI agents on Azure

  - 7 modules
  - 6 hr 28 min

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Milestone 5

Progress:

0%

## Develop generative AI apps in Azure

Learn to create generative AI applications using Azure services. This section covers the development of innovative AI solutions and applications for various use cases.

Days to milestone: 7

- Learning Path

  Develop generative AI apps in Azure

  - 8 modules
  - 7 hr 29 min

  Develop generative AI apps in Azur...

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Milestone 6

Progress:

0%

## Microsoft Certified: Azure AI Engineer Associate - Certifications

Days to milestone: 1

- Certification

  Microsoft Certified: Azure AI Engineer Associate - Certifications

- 

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- © Microsoft 2025

## Career 11tf Discovery Job Trade Memo Lecture Learn Note

# Iframe Pdf Item Preview


## Career 11tf Discovery Job Trade Memo Lecture Learn Note


by

tshingombe

editEdit gearManage timeHistory

Publication date

2025-08-15

Usage

Attribution-NonCommercial-ShareAlike 4.0 International

Topics

engineering publsh

Collection

opensource

Language

English

Item Size

758.6K

this item is currently being modified/updated by the task: book_op

engineering

Addeddate

2025-08-18 08:31:57

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30000

Identifier

career-11tf-discovery-job-trade-memo-lecture-learn-note_202508

Scanner

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# Reviews

0 Views

## DOWNLOAD OPTIONS

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download 3 files

WORD DOCUMENT

download 24 Files
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SHOW ALL

## IN COLLECTIONS

Community Texts

Uploaded by Rdferz on August 18, 2025

## SIMILAR ITEMS (based on metadata)

Document Cloud

Embassy of the United States of America
Kabul, Afghanistan

July 18, 2012

SENSITIVE BUT UNCLASSIFIED
MEMORANDUM for Record

To: [redacted]
Through: [redacted]
From: [redacted]
Subject: [redacted]

[redacted]

Note
This document was obtained by the Project On Government Oversight, which has redacted the name of the guard in question. The memo was provided to POGO on condition that the name be withheld.

UNCLASSIFIED

[Kabul Memo Note](#)

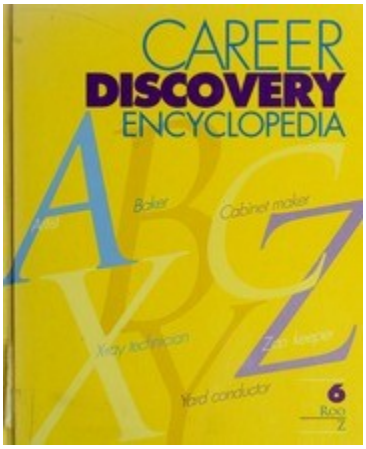
texts

## eye 69

## favorite 0

## comment 0

[Internet Archive Books](#)



Career discovery encyclopedia

by cosgrove, holli, 1964-

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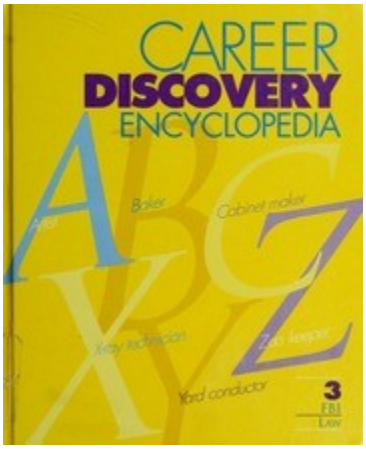
comment 0

Internet Archive Books




Career discovery encyclopedia

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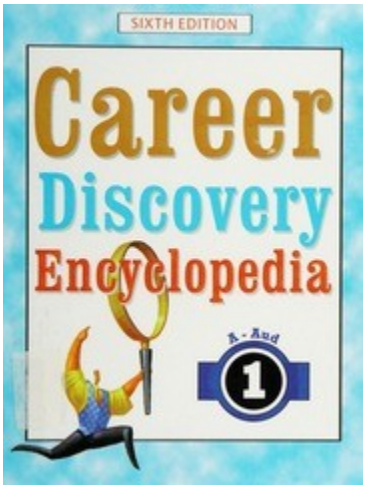
Trent University Library Donation




[Career discovery encyclopedia ]

texts

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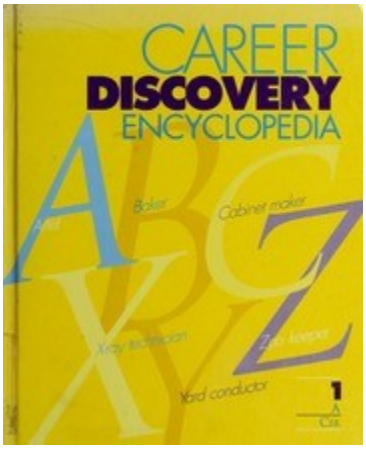
comment 0

[Internet Archive Books]



Career discovery encyclopedia

by cosgrove, holli, 1964-

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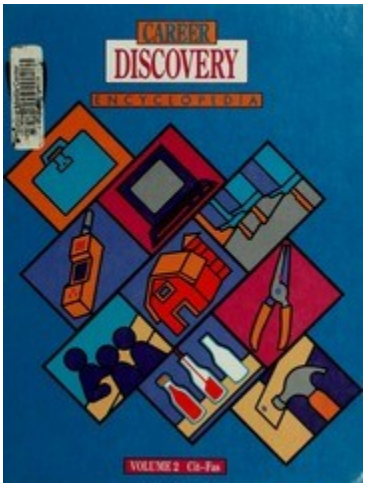
Internet Archive Books




Career discovery encyclopedia

by summerfield, carol j., 1960-

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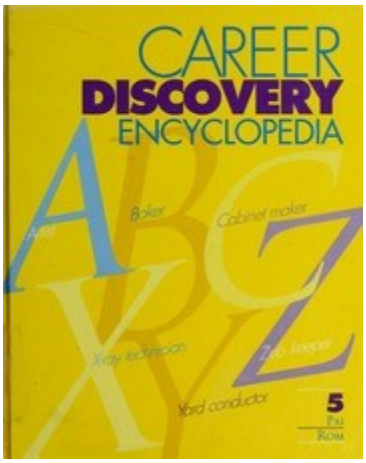


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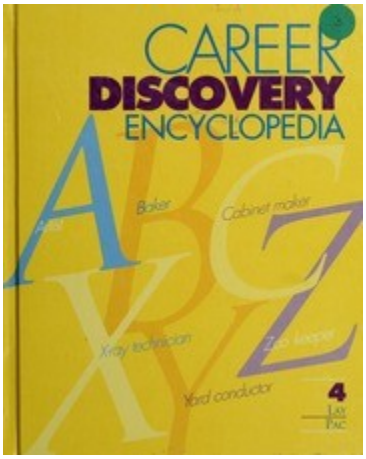


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Terms of Service (last updated 12/31/2014)

# NSF I-Corps Executive Summary Declined

Inbox

R

**Ruth Shuman** Fri, Aug 15, 6:31 PM (3 days ago)

to tshingombekb@gmail.cm, me, rshuman@salesforce.nsf.gov, tshingombekb@gmail.com

Dear tshingombe,

Thank you for your interest in the NSF I-Corps program.

This application has been declined. The applicant does not meet the eligibility requirements. To be eligible, the core technology needs to have been developed at an accredited institution of higher education and the proposal must be submitted from an institution of higher education. Companies are not eligible to apply with the exception of current NSF Phase I grantees (if you are a Phase I grantee, please send your Phase I award number). In addition, an application requires a minimum of three team members (Entrepreneurial Lead, Technical Lead, and Industry Mentor), and include a team member that has a related and relevant prior NSF research award, or the team must have participated in a regional I-Corps program and received a Letter of Recommendation to the national program.

Thank you,

Ruth Shuman

Program Director

National Science Foundation (NSF)

2415 Eisenhower Boulevard, Alexandria, VA 22314

rshuman@salesforce.nsf.gov

## engineering #5

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# Jobs

- 

# Run details

- 

build
succeeded Aug 18, 2025 in 7s

1s

Current runner version: '2.327.1'

Runner Image Provisioner

Operating System

Runner Image

GITHUB_TOKEN Permissions

Secret source: Actions

Prepare workflow directory

Prepare all required actions

Getting action download info

Download action repository 'actions/checkout@v4' (SHA:08eba0b27e820071cde6df949e0beb9ba4906955)

Complete job name: build

2s

Run actions/checkout@v4

Syncing repository: Kananga5/career-discovery-science-mentoring-and-job-experience-tshingombe-

Getting Git version info

Temporarily overriding HOME='/home/runner/work/_temp/1d454498-ff30-47ea-a73f-11437e8d732b' before making global git config changes

Adding repository directory to the temporary git global config as a safe directory

/usr/bin/git config --global --add safe.directory /home/runner/work/career-discovery-science-mentoring-and-job-experience-tshingombe-/career-discovery-science-mentoring-and-job-experience-tshingombe-

Deleting the contents of '/home/runner/work/career-discovery-science-mentoring-and-job-experience-tshingombe-/career-discovery-science-mentoring-and-job-experience-tshingombe-'

Initializing the repository

Disabling automatic garbage collection

Setting up auth

Fetching the repository

Determining the checkout info

/usr/bin/git sparse-checkout disable

/usr/bin/git config --local --unset-all extensions.worktreeConfig

Checking out the ref

/usr/bin/git log -1 --format=%H

67712c5b5cca6e751a8d54dcb9496f858218fec7

0s

Run echo Hello, world!

Hello, world!

0s

Run echo Add other actions to build,

Add other actions to build,

test, and deploy your project.

1s

Post job cleanup.

/usr/bin/git version

git version 2.50.1

Temporarily overriding HOME='/home/runner/work/_temp/7fbf7f0d-af0f-468c-bb8d-974930b56be8' before making global git config changes

Adding repository directory to the temporary git global config as a safe directory

/usr/bin/git config --global --add safe.directory /home/runner/work/career-discovery-science-mentoring-and-job-experience-tshingombe-/career-discovery-science-mentoring-and-job-experience-tshingombe-

/usr/bin/git config --local --name-only --get-regexp core\.sshCommand

/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\.sshCommand' && git config --local --unset-all 'core.sshCommand' || :"

/usr/bin/git config --local --name-only --get-regexp http\.https\:\/\/github\.com\/\.extraheader

http.https://github.com/.extraheader

/usr/bin/git config --local --unset-all http.https://github.com/.extraheader

/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'http\.https\:\/\/github\.com\/\.extraheader' && git config --local --unset-all 'http.https://github.com/.extraheader' || :"

0s

Cleaning up orphan processesKananga5

data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-

- 

 Code
 
 Issues
 
 Pull requests
 
 Actions
 
 Projects

 Wiki 

 Security 

 Insights 


- Settings 

CI

# engineering #3

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## Jobs

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## Run details

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build 
succeeded Aug 18, 2025 in 5s

1s
Current runner version: '2.327.1'
Runner Image Provisioner
Operating System
Runner Image
GITHUB_TOKEN Permissions
Secret source: Actions
Prepare workflow directory
Prepare all required actions
Getting action download info
Download action repository 'actions/checkout@v4'
(SHA:08eba0b27e820071cde6df949e0beb9ba4906955)
Complete job name: build
3s
Run actions/checkout@v4
Syncing repository: Kananga5/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-

Getting Git version info
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/usr/bin/git config --global --add safe.directory /home/runner/work/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-
Deleting the contents of '/home/runner/work/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-/data-base-system-rawing-logic-algorigram-program-master-doctoral-career-nated-'
Initializing the repository
Disabling automatic garbage collection
Setting up auth
Fetching the repository
Determining the checkout info
/usr/bin/git sparse-checkout disable
/usr/bin/git config --local --unset-all extensions.worktreeConfig
Checking out the ref
/usr/bin/git log -1 --format=%H
0e9be0616f84440346b333e424b0316c2773c94c
0s
Run echo Hello, world!
Hello, world!
0s
Run echo Add other actions to build,
Add other actions to build,
test, and deploy your project.
0s
Post job cleanup.
/usr/bin/git version
git version 2.50.1
Temporarily overriding HOME='/home/runner/work/_temp/8e284bd4-e182-4601-a142-ce00de7d5cd5' before making global git config changes
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/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\.sshCommand' && git config --local --unset-all 'core.sshCommand' || :"

/usr/bin/git config --local --name-only --get-regexp http\.https\:\/\/github\.com\/\.extraheader
http.https://github.com/.extraheader
/usr/bin/git config --local --unset-all http.https://github.com/.extraheader
/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'http\.https\:\/\/github\.com\/\.extraheader' && git config --local --unset-all 'http.https://github.com/.extraheader' || :"
0s
Cleaning up orphan processes

## Published Alison meeting

## Part 1 career mentor path training employment build skill cvs

## Part 2 course learner:

## By tshingombe tshitadi fiston

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• Free personality assessments help learners understand their strengths and weaknesses for
better career alignment.

**3. Learning Modules and Certification Programs**

• Categories of courses include:
  o IT (1,217 courses)
  o Business (1,679 courses)
  o Engineering & Construction (795 courses)
  o Teaching & Academics (1,560 courses)
  o Personal Development (1,277 courses)
• Courses are offered in various languages, enhancing accessibility for global learners.

**4. Building Careers through Practical Tools**

• Users can build professional resumes using easy-to-use templates.

• Job-focused training ensures readiness for real-world challenges, like interviews and
workplace expectations.

**5. Learning Partnerships**

• The platform collaborates with top institutions such as Stanford, MIT, and Microsoft to
offer quality content from leading experts.
• Special features like "Alison for Business" provide tailored solutions for organizational
learning and development.

**6. Mobile Accessibility**

• The Alison App allows learning on the go, even offline, with thousands of courses
available anytime, anywhere.

**7. Popular Trends and Courses**

• Trending topics include business analytics, healthcare advancements, graphic design, and
leadership management.
• Course recommendations and diploma options are aligned with current market demands.

**8. Graduate Outcomes and Networking**

• Over 45 million learners and 10 million graduates demonstrate the platform’s success in
helping users achieve educational and career goals.
• Users can explore success stories and graduate outcomes for inspir

Your Alison dashboard looks active and full of opportunities to maximize your learning and

career development journey. Here's a clear summary and strategy for leveraging your platform
effectively:

## Learning Dashboard Highlights

- **Courses in Progress:**

1. Electrical Engineering - Electrical Transformer Components (86% Complete). *Tip:*
Prioritize completing this to claim your certificate and enhance your qualifications.

- **Other Recommended Courses:**
  - Diploma in Electrical Studies.
  - Introduction to the Electrical Trade.
  - Introduction to Electrical Wiring Systems. *Suggestion:* These courses align well
with your interest in electrical engineering. Completing them could solidify your
expertise further.

- **Statistics & Medals:**
  - Learning Time: 38 minutes logged so far.


  - Medals Earned: 2 Bronze and 1 Silver. *Goal:* Learn consistently for 3 days in a
week to unlock the Gold medal while increasing your total course hours.

## Goals and Action Plan

1. **Complete Current Courses:** Focus on wrapping up your ongoing courses to maximize
your dashboard achievements and claim certificates.
2. **Develop a Career Plan:** Utilize tools like "Career Ready Plan" and "Create Resumé/CV"
to tailor your educational achievements for future job applications.
3. **Upskill Strategically:**
   - Consider enrolling in advanced courses or diplomas related to energy systems,
electrical design, and project management.
   - Keep an eye on trending courses in South Africa for skills in demand.
4. **Leverage the App:** Download the Alison App to continue learning offline, ensuring
flexibility even when internet access is limited.
5. **Stay Consistent:** Set study reminders to maintain regular progress and aim to surpass the
average learning time for better performance tracking.

## Background Experimental Overview: Learn & Build Your Career

**1. Claim Your Certificates**

• Completing courses unlocks certificates that validate your skills and learning
achievements. These are great additions to your professional profile and CV.

**2. Career Ready Plan**

• A guided, step-by-step career plan tailored to your goals.

• Perfect for learners unsure of where to start, this tool helps align your education and
professional aspirations.

**3. Resumé Builder**

• Create a free, polished résumé to showcase your skills effectively to potential employers.

• It's a convenient way to ensure your qualifications stand out.

**4. Assessments for Career and Personal Growth**

• **Workplace Personality Assessment:** Discover your strengths and weaknesses and how
they align with preferred roles.

• **Mental Wellbeing Check-Up:** Measure your emotional and physical state to support
personal and professional development.

**5. Self-Improvement and Career Courses**

• Explore trending career paths and courses tailored to in-demand skills.

• Top self-improvement courses help you grow holistically.

**6. Unique Features to Accelerate Learning and Success**

• **Earnings Tracking:** Monitor your progress and achievements over time.

• **Personal Recommendations:** Curated suggestions based on your interests and
completed courses.

## Suggested Plan of Action

• **Step 1:** Start with the "Career Ready Plan" to discover your most suitable career path and
map a strategy for success.

• **Step 2:** Use the Resumé Builder to create a professional CV highlighting your
certifications and skills.

• **Step 3:** Take the Personality Assessment to align your strengths with the right career path.

• **Step 4:** Enroll in targeted courses for in-demand skills, completing certifications to
enhance your profile.

• **Step 5:** Schedule regular check-ins for the Mental Wellbeing Check-Up to maintain a

healthy balance between personal growth and career ambitions.

## Your Learning Journey on Alison

### 1. Current Progress Overview

• **Courses in Progress:** Electrical Measuring Instrumentation (Enrolled on 10th March,
0% completed).
• **Achievements in March:**
  o Earned one bronze medal by learning one day in the month.
  o Best learning day: 10th March (18 minutes logged).

### 2. Suggested Actions for Improvement

• Aim for consistent learning across the week to unlock silver and gold medals.
• Set a personal goal to complete at least one course per month, starting with the current
course.
• Take advantage of the study reminder feature to establish a regular learning routine.

### 3. Tools to Boost Your Career

• **Career Ready Plan:** Discover your optimal career path with a step-by-step guide.
• **Resumé Builder:** Craft a polished and professional CV to showcase your skills.
• **Aptitude and Reasoning Tests:** Assess where you stand with free tests like:
  o Verbal and Numerical Reasoning.
  o Abstract Reasoning.

### 4. Free Online Course Categories to Explore

• IT, Engineering & Construction, Teaching & Academics, Personal Development, and
Business—all aligned with your areas of interest.
• Focus on certifications or diplomas that match your goals in electrical engineering or
other technical fields.

### 5. Additional Features

• **Mobile App:** Learn offline by downloading the Alison app, making it easier to study on
the go.
• **Graduate Outcomes:** Explore testimonials and success stories to stay motivated.

### 6. Steps to Advance Next Month

• Complete a learning day for at least three days weekly.

• Prioritize completion of Electrical Measuring Instrumentation and claim your certificate.
• Enroll in complementary courses like "Diploma in Electrical Studies" to broaden your
expertise.

## Learning and Development Overview

### 1. Courses and Certifications

• Access over 5,500 free courses spanning IT, health, engineering, and personal
development.
• Certificates and diplomas validate your skills and enhance professional profiles.

### 2. Career Tools

• **Aptitude Test:** A free, expert-validated tool assessing verbal, numerical, and abstract
reasoning.
• **Resumé Builder:** Create a polished CV to showcase your skills for job applications.
• **Personality Assessments:** Explore workplace fit and career alignment based on your
unique traits.

### 3. Accessibility and Convenience

• **Offline Learning:** Download the Alison App to continue courses without internet access.
• **Language Options:** Courses available in English, Spanish, French, Italian, and Brazilian
Portuguese, making learning globally accessible.

### 4. Insights and Recommendations

• Personalized course recommendations based on aptitude test results.
• Progress tracking with daily study reminders and medals to incentivize consistency.

### 5. Learning Statistics and Goals

• Set monthly targets to improve learning hours and course completions.
• Earn medals by maintaining regular study habits (Bronze for 1 day, Silver for 2 days,
Gold for 3 days of learning in a week).

### 6. Specialized Assessments

• **Mental Wellbeing Check-Up:** Gauge emotional and physical health.
• **Career Path Guidance:** Use tools like "Career Ready Plan" for tailored professional
strategies.

**7. Business and Advanced Features**

• **Corporate Learning Solutions:** Tailor educational programs to organizational needs.

• **Affiliate Program:** Create or recommend courses for earning opportunities.

## Recommended Action Plan for Tshingombe

1. **Focus on Current Courses:** Complete "Electrical Measuring Instrumentation" and explore additional topics in engineering and construction.
2. **Take the Aptitude Test:** Use the results to identify strengths and align your career path strategically.
3. **Build Your Profile:** Update your Alison profile to reflect achievements and certifications.
4. **Leverage Offline Learning:** Utilize the Alison App to study anywhere, anytime.
5. **Explore Advanced Opportunities:** Enroll in diplomas or certifications aligned with your interests to deepen expertise.

## Understanding Your Score

• **Current Performance:** Beginner level in verbal reasoning, with strengths in vocabulary and grammar (3/16) and opportunities for improvement in reading comprehension and literacy.

• **Percentile Rank:** You scored better than 6% of global test-takers. This baseline is a strong starting point for growth!

## Actionable Steps to Improve Verbal Reasoning Skills

1. **Targeted Learning with Alison's Courses:** Alison offers free courses specifically designed to strengthen verbal reasoning and communication. I recommend starting with:
   - *Essential Grammar Skills*
   - *Reading and Writing English for Beginners*
   - *English Vocabulary and Pronunciation*
2. **Daily Practice:**
   - Spend 10–15 minutes daily reading short articles, newspapers, or blogs. Focus on understanding context, identifying main ideas, and expanding your vocabulary.

- Use free apps like Merriam-Webster or Duolingo to reinforce word usage and grammar.

3. **Practical Exercises:**
   - Practice verbal reasoning sample questions (e.g., reading passages and answering comprehension questions).
   - Start journaling or summarizing stories in your own words to build literacy and comprehension over time.
4. **Engage in Conversations:**
   - Join language exchange groups online or locally to improve oral communication skills.
   - Practice speaking English in everyday scenarios to build confidence.
5. **Utilize Alison Tools:**
   - Incorporate recommendations from your test report into a structured learning plan.
   - Keep track of your progress on Alison's dashboard.

## Goal-Setting for the Next 3 Months

- **Short-Term Goal:** Complete at least two courses focusing on vocabulary, grammar, and comprehension.
- **Mid-Term Goal:** Retake the Aptitude Test and aim to increase your percentile rank by at least 15–20%.
- **Long-Term Goal:** Build enough confidence and skills to apply these improvements in both educational and professional settings.
- Alison Aptitude Test Report
-

tshingombe fiston | Alison ID:37876299

## Understanding Your Score

- **Performance Overview:** Beginner level with strengths in numeracy (1/5) and data interpretation (1/5). Opportunities lie in improving problem-solving and deepening your understanding of numerical concepts.
- **Percentile Rank:** Scored better than 14% of global test-takers. This provides a solid foundation to build upon.

## Actionable Steps for Improvement

1. **Enroll in Relevant Courses:** Alison offers tailored courses to improve numerical reasoning. Recommended options include:
   - *Introduction to Numerical Analysis*
   - *Basic Problem-Solving with Numbers*
   - *Fundamentals of Data Interpretation*
2. **Daily Practice:**
   - Set aside 10–15 minutes daily to solve numerical puzzles, basic arithmetic problems, and logic-based questions.
   - Websites like Mathway or Khan Academy can provide interactive exercises and tutorials.
3. **Focus Areas:**
   - **Problem Solving:** Work on word problems requiring logical solutions or multi-step calculations.
   - **Data Interpretation:** Practice analyzing charts, graphs, and tables to draw conclusions.
   - **Numeracy Basics:** Revisit foundational concepts like percentages, ratios, and basic algebra.
4. **Track Progress:**
   - Retake the test monthly and aim for incremental improvements in each domain.
   - Use Alison's development graph to monitor score trends and identify progress areas.
5. **Practical Applications:**
   - Apply numerical reasoning in real-life scenarios like budgeting, managing expenses, or interpreting reports.
   - Explore tools like Excel for data analysis to practice interpretation skills.

## Next Steps

- **Short-Term Goal:** Complete one course in numerical reasoning within the next month.
- **Mid-Term Goal:** Improve problem-solving and data interpretation scores by at least 2/5 during the next test attempt.
- **Long-Term Goal:**

Your Abstract Reasoning results showcase impressive potential, Tshingombe! Scoring at an

**Intermediate level** with strengths in identifying patterns (5/8) and lateral thinking (3/8) is a solid
foundation to build upon. Let's map out how you can take these skills to the next level:

## Understanding Your Performance

- **Strengths:**
  - Identifying patterns and recognizing trends.
  - Lateral thinking, which showcases your ability to think creatively and solve
problems innovatively.
- **Opportunities for Growth:**
  - Strengthening critical thinking (1/8) to enhance problem-solving in complex
scenarios.
  - Further improving lateral thinking for more refined decision-making.

## Next Steps to Improve Abstract Reasoning

1. **Focus on Courses for Improvement:** Alison provides excellent options tailored to
enhancing abstract reasoning:
   - *Critical Thinking and Problem-Solving Skills.*
   - *Introduction to Logical Reasoning and Trends Analysis.*


   - *Innovation and Creativity in Problem-Solving.*
2. **Daily Mental Exercises:**
   - Dedicate 15 minutes each day to solve puzzles or brain teasers focused on logical
reasoning and pattern recognition (e.g., Sudoku or visual sequence puzzles).
   - Use platforms like

## Overview of Online Certificates

1. **What is an Online Certificate Program?**
   - A short-term, focused, postsecondary training that dives deep into a specific
subject or skill set.
   - Historically tied to skilled trades (like carpentry or plumbing), online certificates
now cater to professions such as IT, accounting, education, healthcare, and technology.
   - Alison's programs are self-paced, free to study, and typically completed in just 2–
3 hours, providing flexible learning opportunities.
2. **Why Pursue an Online Certificate?**
   - **Professional Development:**

□□Meet employer requirements for job roles.
□□Improve skills to earn a promotion or career transition.
□□Build marketable expertise to start a business.
- **Personal Growth:**

□□Enhance communication, negotiation, or well-being skills.
□□Satisfy intellectual curiosity or gain deeper knowledge in a field of interest.

3. **Advantages of Online Certificates:**
   - **Accessibility:** Learn anytime, anywhere, at your own pace.
   - **Affordability:** Free to study, with optional certificates available for purchase as proof of achievement.
   - **Relevance:** Courses align with in-demand skills and emerging industries.

## High-Demand Certificates and Popular Topics

- **Project Management**
- **IT and Computer Skills**
- **Nutrition and Fitness**
- **Business and Leadership Skills**
- **Teaching and Education**

## Why Choose Alison?

- Collaborations with elite institutions (Stanford, Yale, MIT, Cambridge, etc.).
- Over 4,000 free courses designed by world-class educators and experts.
- Flexible, self-paced structure tailored to meet individual needs and schedules.

## Action Plan for Tshingombe


- **Step 1:** Enroll in a certificate program tailored to your career goals or personal interests.

For example:
   - *Project Management*: To enhance leadership in the energy or education sectors.
   - *IT or Engineering Topics*: Aligned with your expertise in electrical systems.
- **Step 2:** Dedicate 2–3 hours per week to complete a certificate to demonstrate your commitment to continuous learning.
- **Step 3:** Use the "Career Ready Plan" to align your newly acquired skills with job opportunities.
- **Step 4:** Add certifications to your resumé using Alison's Resumé Builder to showcase your qualifications to potential employers.

our exploration of online certificates with Alison offers exciting prospects for both personal and
professional growth! Here's a comprehensive breakdown of the key takeaways and opportunities:

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your qualifications to potential employers.
Your Workplace Personality Assessment highlights valuable insights into your strengths and
areas for improvement, Tshingombe! Here's a structured overview to help you use this
information effectively:

## Key Highlights from Your Assessment

### Top Strengths (Scores: 10/10):

1. **Assertiveness** (People Skills):
o You excel in leadership roles and confidently take charge in teams.
o Recommended Course: *Diploma in Business Communication Skills* (Beginner
Level, 10–15 hours).
2. **Self-Control** (Motivations):
o You maintain composure under pressure and make sound decisions.
o Recommended Course: *The Elements of Entrepreneurial Success* (Advanced
Level, 4–5 hours).
3. **Entrepreneurial Drive** (Motivations):
o Strong initiative to create impact and collaborate effectively.
o Recommended Course: *Leadership Skills in Business* (Beginner Level, 2–3 hours).
4. **Positivity** (People Skills):
o A proactive mindset that inspires others.

- Recommended Course: *Public Speaking* (Beginner Level, 2–3 hours).

## Skills to Improve

1. **Being Persuasive** (Score: 1/10):
   - Improve your ability to influence and persuade others effectively.

   - Recommended Course: *Diploma in Business Communication Skills*.
2. **Stress Management** (Score: 1/10):
   - Develop strategies to manage stress and maintain work-life balance.
   - Recommended Course: *Stress Management Skills for Life* (Beginner Level).
3. **Work Structure** (Score: 1/10):
   - Enhance task organization and prioritization skills.
   - Recommended Course: *Kaizen Approach - Lean Methodology for Continuous Improvement*.
4. **Creative Learning Style** (Score: 3/10):
   - Boost creativity in how you absorb and apply knowledge.
   - Recommended Course: *Innovative Thinking Techniques* (Beginner Level).

## Recommended Career Paths

- Leadership roles where assertiveness and entrepreneurial drive are vital.
- Innovation-driven careers that require positivity and self-control.
- Education-focused fields where communication and creativity are key.

## Action Plan

1. **Enroll in Courses:** Start with topics related to your strengths (e.g., entrepreneurial success and communication) and gradually address areas for improvement.
2. **Daily Practice:** Incorporate small exercises like mindfulness for stress management or brainstorming sessions for creative thinking.
3. **Apply Skills:** Use work scenarios to implement what you've learned, such as applying lean methodologies to optimize task structures.
4. **Reassess Progress:** Retake the personality assessment monthly to monitor improvements.

## Alison's Top Free Online Courses For "engineerng electrical course diploma"

Discover the best resources and courses on engineerng electrical course diploma - handpicked by experts

Did you mean: engineering electrical course diploma?

5,351 courses

Beginner Level
engineering
0% complete

## career Opportunities

1. **Junior-Level Roles:** Maintenance technician, soldering specialist, or assistant in
electrical installations.
. **Senior-Level Roles:** Electrical engineer, system designer, or project manager overseeing
large-scale installations and repairs.
3. **Advanced Careers:** Research-focused roles in electrotechnical engineering, energy

systems, or material innovation[Reminder] Your upcoming webinar

Inbox

**Alison Webinars <webinars@alison.com>** Tue, May 20, 7:00 PM (3 days ago)

to
me

## SEO Training for Publishing on Alison

*Hosted by Alison Webinars, Mustafa Ali Khan*
Wednesday, May 21 2025
5:00 PM (GMT +1:00) Dublin, Edinburgh, Lisbon

This is a friendly reminder of the upcoming webinar you registered for!

The best thing you can do now is to bookmark the webinar link, and to set a reminder on your calendar so you do not miss the webinar.

- **Webinar room:**

https://event.webinarjam.com/t/click/1n61wt6mtl48hqnrar988tzz38h96tr

- **Room password:** N/A

See you at the webinar!

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Claim Your Certificates
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**Benefits of an Alison Certificate**

- **Learn for Free**

  Enrol in a course, finish learning, and pick up new skills - all for free.

- **Study at Your Own Pace**

  Study whenever you want, from wherever you want. If you need a break, continue learning from where you left off.

- **CPD Accredited Certificates**

  Claim Certificates/Diplomas, add them to your CV, and show off your new skills to the world.

## Explore Related Subjects

# Frequently Asked Questions

How are Alison courses structured?
All Alison courses follow the basic structure of Course - Module - Topic - Assessment.Typically, Certificate courses have one assessment at the end of the course and Diploma courses have multiple assessments throughout.Assessments are designed to test your understanding of the content. They may include single or multiple-choice questions. You need to complete all modules and topics, and achieve at least 80% in your assessment in order to pass. The good news is that you can retake the assessment as many times as you like.

When will my lesson start?
Alison courses are designed to be self-paced and self-taught. You can begin a course when you're ready and study whenever you have the chance. The duration of your study is entirely your decision.

What is the course duration?
You can complete our skills-based **Certificate courses** in under 3 hours. They are designed to focus your learning on specific topics in your field or industry.

You can graduate from our **Diploma Courses** in around 6-15 hours. These courses cover a range of topics and are great if you wish to broaden your knowledge on a particular subject area.

What's the difference between a Certificate and a Diploma course?
**Certificate Courses**

- Duration: 2-3 hours
- Focus: Specific topics within a subject area, like languages, media studies, health, business, or computer programming.
- Note: Not all Certificates have a Diploma equivalent.

**Diploma Courses**

- Duration: 8-10 hours
- Focus: Comprehensive understanding of a subject, covering multiple concepts, such as business management, workplace safety, or nursing.
- Note: If a Certificate is part of a Diploma, you'll need to complete both separately.

In short, Certificates offer targeted learning, while Diplomas provide in-depth knowledge.

Are Alison courses accredited?
Yes, Alison courses are accredited by CPD UK. This accreditation ensures that our courses meet professional development standards and quality benchmarks. This means a certificate from a course on Alison can now be used as part of your CPD requirements, but please verify with your organisation's guidelines. For more details on Alison's accreditation, you can find additional information here.

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- 1.
- 3D Animator
- Arts, Audio/Video Technology, and Communications
- 2.

- 3D Printing Technician
- Science, Technology, Engineering, and Mathematics
- 3.
- 911 Dispatcher
- Law, Public Safety, Corrections, and Security

| N | Name career | Categorie name |
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| | • 3D Animator<br>Academic Advisor<br>AI Engineer<br>Computer Engineer | • 3D Printing Technician<br>• Science, Technology, Engineering, and Mathematics<br>• 3.<br>• 911 Dispatcher<br>• Law, Public Safety, Corrections, and Security<br>Academic Advisor<br>Education and Training<br>7.<br>Academic Dean<br>Education and Training<br>8.<br>Account Manager<br>Marketing, Sales, and Service<br>AI Engineer<br>Information Technology<br>243.<br>Computational Scientist<br>Information Technology<br>244.<br>Computer Engineer<br>Science, Technology, Engineering, and Mathematics<br>245.<br>Computer Hardware Engineer<br>Science, Technology, Engineering, and Mathematics<br>246.<br>Computer Network Architect<br>Information Technology<br>247.<br>Computer Programmer<br>Information Technology<br>248.<br>Computer Scientist<br>Science, Technology, Engineering, and Mathematics<br>249.<br>Computer Security Specialist<br>Information Technology<br>250.<br>Computer Service Technician<br>Information Technology |

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| | | 251.<br>Computer Systems Analyst<br>Science, Technology, Engineering, and Mathematics<br>252.<br>Computer Systems Operator<br>Information Technology<br>253.<br>Computer User Support Specialist<br>Information Technology<br>254.<br>Concept Artist<br>Arts, Audio/Video Technology, and Communications<br>255.<br>Concierge<br>Hospitality and Tourism<br>256.<br>Concrete Finisher<br>Architecture and Construction<br>257.<br>Confectionery Chef<br>Hospitality and Tourism<br>258.<br>Congressional Aide<br>Government and Public Administration<br>259.<br>Conservation Scientist<br>Agriculture, Food, and Natural Resources<br>260.<br>Construction Estimator<br>Architecture and Construction<br>261.<br>Construction Manager<br>Architecture and Construction<br>262.<br>Construction Project Manager<br>Architecture and Construction<br>263.<br>Construction Site Supervisor<br>Architecture and Construction<br>264.<br>Content Manager<br>Arts, Audio/Video Technology, and Communications<br>265.<br>Content Strategist<br>Arts, Audio/Video Technology, and Communications<br>266.<br>Content Writer<br>Arts, Audio/Video Technology, and |

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| | | Communications<br>267.<br>Copy Editor<br>Arts, Audio/Video Technology, and Communications<br>268.<br>Copywriter<br>Arts, Audio/Video Technology, and Communications<br>269.<br>Coroner<br>Law, Public Safety, Corrections, and Security<br>270.<br>Corporate Banker<br>Finance<br>Counselor<br>Human Services<br>279.<br>Court Officer<br>Law, Public Safety, Corrections, and Security<br>280.<br>Court Reporter<br>Law, Public Safety, Corrections, and Security<br>281.<br>Crane Operator<br>Architecture and Construction<br>282.<br>Creative Director<br>Arts, Audio/Video Technology, and Communications<br>Crime Scene Investigator<br>Law, Public Safety, Corrections, and Security<br>289.<br>Criminal Defense Lawyer<br>Law, Public Safety, Corrections, and Security<br>290.<br>Criminal Profiler<br>Law, Public Safety, Corrections, and Security<br>291.<br>Criminologist<br>Law, Public Safety, Corrections, and Security<br>292.<br>Crisis Counsellor<br>Human Services<br>293.<br>Crisis Intervention Counsellor<br>Human Services<br>294.<br>Crisis Line Counsellor<br>Human Services<br>295.<br>Critic |

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| | | Arts, Audio/Video Technology, and Communications<br>296.<br>Crossfit Coach<br>Education and Training<br>297.<br>Crypto Trader<br>Editorial Assistant<br>Arts, Audio/Video Technology, and Communications<br>362.<br>Education Administrator<br>Education and Training<br>363.<br>Education and Training Manager<br>Education and Training<br>364.<br>Educational Psychologist<br>Education and Training<br>365.<br>Electrical Engineer<br>Science, Technology, Engineering, and Mathematics<br>366.<br>Electrician<br>Architecture and Construction<br>367.<br>Electronic Music Producer<br>Arts, Audio/Video Technology, and Communications<br>368.<br>Electronics Engineer<br>Science, Technology, Engineering, and Mathematics<br>369.<br>Elementary School Counselor<br>Education and Training<br>370.<br>Elementary School Teacher<br>Education and Training<br>371.<br>Elevator Mechanic<br>Architecture and Construction<br>372.<br>Embalmer<br>Health Science<br>373.<br>Emergency Medical Technician<br>Health Science<br>374.<br>Endoscopy Nurse<br>Health Science |

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| | | 375.<br>Endoscopy Technician<br>Health Science<br>376.<br>Energy Conservation Specialist<br>Science, Technology, Engineering, and Mathematics<br>377.<br>Engineering Geologist<br>Science, Technology, Engineering, and Mathematics<br>378.<br>English Teacher<br>Education and Training<br>379.<br>Enologist<br>Agriculture, Food, and Natural Resources<br>380.<br>Enrolled Agent<br>Finance<br>381.<br>Entertainer<br>Arts, Audio/Video Technology, and Communications<br>382.<br>Entomologist<br>502.<br>Helicopter Mechanic<br>Science, Technology, Engineering, and Mathematics<br>503.<br>Herbalist<br>Health Science<br>504.<br>High School Counselor<br>Human Services<br>505.<br>High School Teacher<br>Education and Training<br>506.<br>Historian<br>534.<br>Immunologist<br>Health Science<br>535.<br>Industrial Designer<br>Science, Technology, Engineering, and Mathematics<br>536.<br>Industrial Economist<br>Finance<br>537. |

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| | | Industrial Engineer<br>Science, Technology, Engineering, and Mathematics<br>538.<br>Industrial Machinery Mechanic<br>Manufacturing<br>539.<br>Industrial Organisational Psychologist<br>Human Services<br>540.<br>Industrial Production Manager<br>Business Management and Administration<br>541.<br>Infant Nurse<br>Health Science<br>542.<br>Influencer<br>Marketing, Sales, and Service<br>543.<br>Information Security Analyst<br>Science, Technology, Engineering, and Mathematics<br>544.<br>Instructional Designer<br>Education and Training<br>545.<br>Insurance Adjuster<br>Finance<br>546.<br>Insurance Sales Agent<br>614.<br>Materials Science Engineer<br>Science, Technology, Engineering, and Mathematics<br>615.<br>Mathematician<br>Science, Technology, Engineering, and Mathematics<br>616.<br>Mechanical Engineer<br>Science, Technology, Engineering, and Mathematics<br>617.<br>Mechanical Engineering Technician<br>Science, Technology, Engineering, and Mathematics<br>618.<br>Media Buyer<br>Marketing, Sales, and Service<br>619.<br>Media and Communication Equipment Worker |

| | | |
|---|---|---|
| | | Personal Financial Planner<br>Finance<br>735.<br>Personal Shopper<br>Human Services<br>736.<br>Personal Trainer<br>Human Services<br>737.<br>Personnel Recruiter<br>Business Management and Administration<br>738.<br>Petroleum Engineer<br>Science, Technology, Engineering, and Mathematics<br>739.<br>Petroleum Geologist<br>Science, Technology, Engineering, and Mathematics<br>740.<br>Pharmaceutical Sales Representative<br>Marketing, Sales, and Service<br>741.<br>Pharmaceutical Scientist<br>Science, Technology, Engineering, and Mathematics<br>742.<br>Pharmacist<br>Health Science<br>743.<br>Pharmacy Technician<br>Health Science<br>744.<br>Philosopher<br>Arts, Audio/Video Technology, and Communications<br>745.<br>Phlebotomist<br>Health Science<br>746.<br>Photogrammetrist<br>Science, Technology, Engineering, and Mathematics<br>747.<br>Photographer<br>Arts, Audio/Video Technology, and Communications<br>748.<br>Photojournalist<br>Arts, Audio/Video Technology, and Communications<br>749. |

| | | |
|---|---|---|
| | | Physical Education Teacher<br>Education and Training<br>750.<br>Physical Therapist |

FREE ONLINE COURSE CATEGORIES

- IT
- Health
- Language
- Business
- Management
- Personal Development
- Sales & Marketing
- Engineering & Construction
- Teaching & Academics
- English

LEARN ABOUT ALISON

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Editing For

tshingombe fiston...

First Module for Evaluation tshingombe fiston (ID: 27845)

Edit Course Information

STEP 1

- 

 Title
  Headline

- Language

STEP 2

- 

 Short Summary

- Content Rights

STEP 3

- 
- Long Description

STEP 4

- 
- Learning Outcomes

STEP 5

- 

 Course Duration
  Meta Title

 Meta Description
**Created:** 2025-04-09 07:54:22

**Last Edited:** 2025-05-19 11:38:22

**Course Language:** English (United Kingdom)
Autosaved
Course Theme Colour
Edit Course Information

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Course Structure
My first Module: Course Modules Overview 1. Core Knowledge and Theory Modules: o The Electrical Trad
Learning Outcomes
Topic 1 :mastering in studie electrical technologie , circuit breakers
Topic 2 : engineering electrical, civil building , carpentery landsca
Page 1
+ Add a New Page or Question
Topic 3 : mastering electrical computer and maintainance
Page 1
+ Add a New Page or Question
Lesson Summary
Page 1: Lesson Summary
Page 2

- Most Asked Questions
- getting started
- accessing publishing tool
- before you start
- provide course information
- create course content
- course review process
- technical support
- financial & copyrighting terms
- earnings & payments

- How do I submit my Test Course for a review?
- What support do I have from Alison while publishing a course?
- How long does it take to publish a course on Alison?
- Do you provide any training for Course Creator to create a course on Alison?

- □ an I use content from the internet to create my course?

- Yes, you can use content from the internet in your course but there are some important things to keep in mind. You must make sure to properly understand and comply with copyright laws and ethical

guidelines when using content from the internet. By being mindful of copyright and plagiarism laws, you can confidently use internet resources to create an engaging and informative course for your learners.

- Explore the "How Do I Protect Against Copyright Infringement?" article for further details.

- Can I use AI to build my course for me?

- How Do I Protect Against Copyright Infringement?

- In the agreement you make with Alison to become a Publisher, you agree to obtain the permission to include materials in your course that are held in copyright by a third party. This includes: proprietary text, images, illustrations, data, multimedia and any other materials produced or owned by third parties.

- Third party copyright material includes content that is not your own work, or material that is not in the public domain. It may also include material which is your own work or part of your own work and for which you do not have permission to use in certain contexts.

- If you use permission to use content that is copyright free, you may be required to credit or reference the author or producer of this material.

- Alison does not take responsibility for copyright infringement by Alison Publishers, including Self-Publishers and Contractor Publishers. Alison Publishers assume personal responsibility and liability for any copyright material or intellectual property infringement included in their courses.

- To use content produced solely by, or in collaboration with, third parties in your courses, without infringing copyright or intellectual property, Alison Publishers are advised to agree to use terms and conditions laid out by the producers/owners/collaborators of this content, in order to avoid any legal liability.

- These are some copyright-free sites that you can use for image sourcing: https://pixabay.com/

- https://www.pexels.com/

- https://unsplash.com/

- **For more information on copyright, you can attend Alison's webinars.**

- Who holds the copyright for the course I create?

- Most Asked Questions
- getting started (with LMS)
- managing your LMS
- reporting & certificates
- team member FAQ
- API integration
- LMS+ subscription

- What features are included in the Free LMS plan?

  The Free LMS plan is feature-rich and ideal for teams of any size. You'll have access to 4,000+ courses from a CPD accredited provider, pre-created Learning Paths developed by industry experts, custom learning paths, real-time analytics and in-depth reporting, and the flexibility to manage learning schedules. All with a quick and easy setup process.

- Is there a trial period?
- How does the Free LMS compare to Traditional LMS platforms?
- Is Alison's Free LMS really free?

- Most Asked Questions

- learner account

- premium subscription

- learning

- certificates

- payments

- orders

- career building tools

- accreditation

- affiliate programme

- refer-a-friend programme
- alison app
- technical help
- How do I unsubscribe from Alison mailing lists?
- What information can other users see on my profile?
- How to change the language on Alison?
- How do I add or change my profile picture?

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**Roberto Aldrett - roberto@aiu.edu**

**- Communications Coordinator -**

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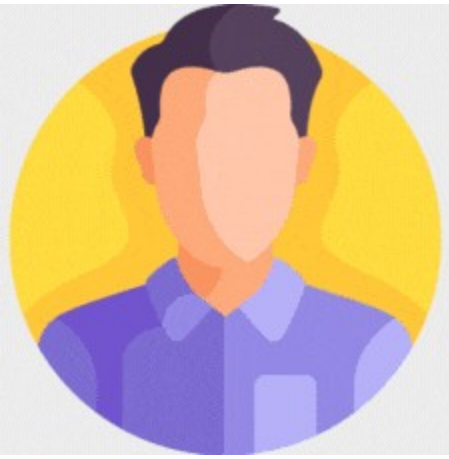

tshingombe tshitadi Doctorate in engineering

My Progress

AIU Curriculum Designer

Artificial Intelligence U

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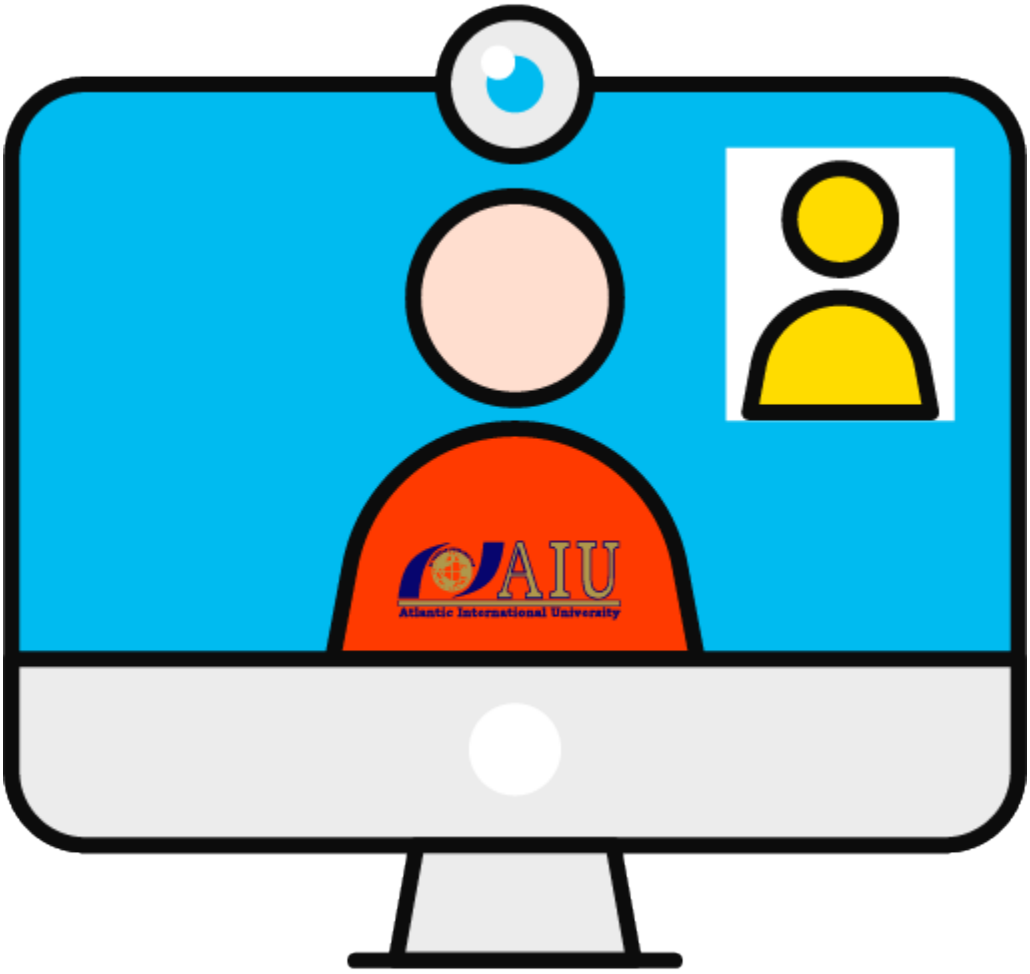
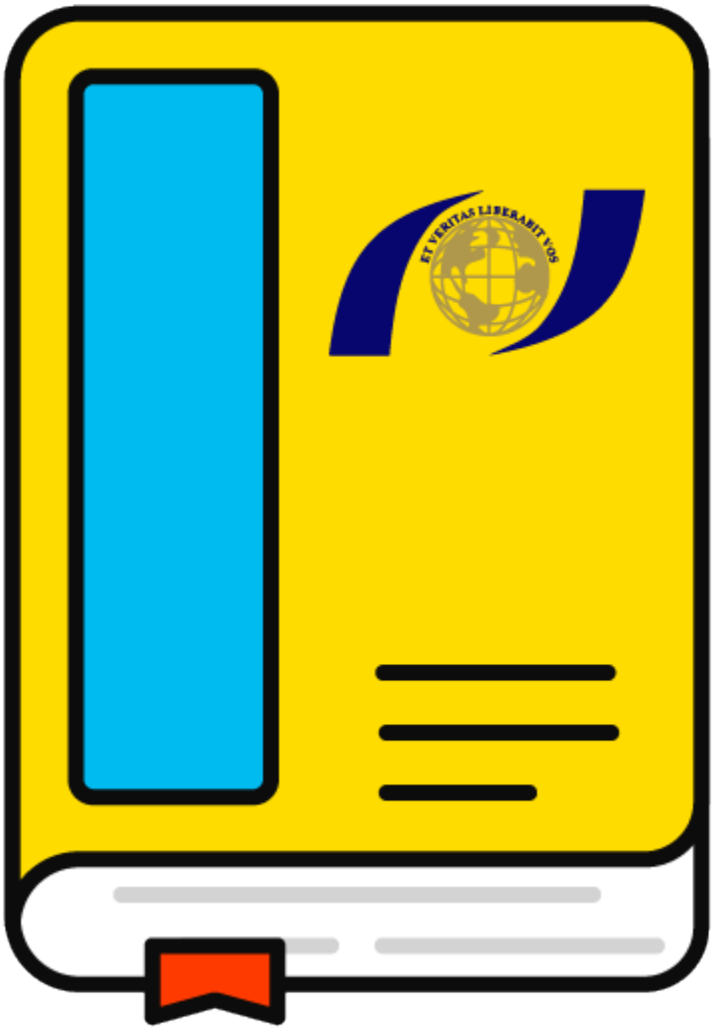
# Online Resource Manager

Online Resource Manager




Video Conferences




[Additional Resources]

Campus Mundi

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